

SITE DEVELOPMENT PLANS PROPOSED RESIDENTIAL DEVELOPMENT 320 CONCORD STREET IN ROCKLAND, MASSACHUSETTS

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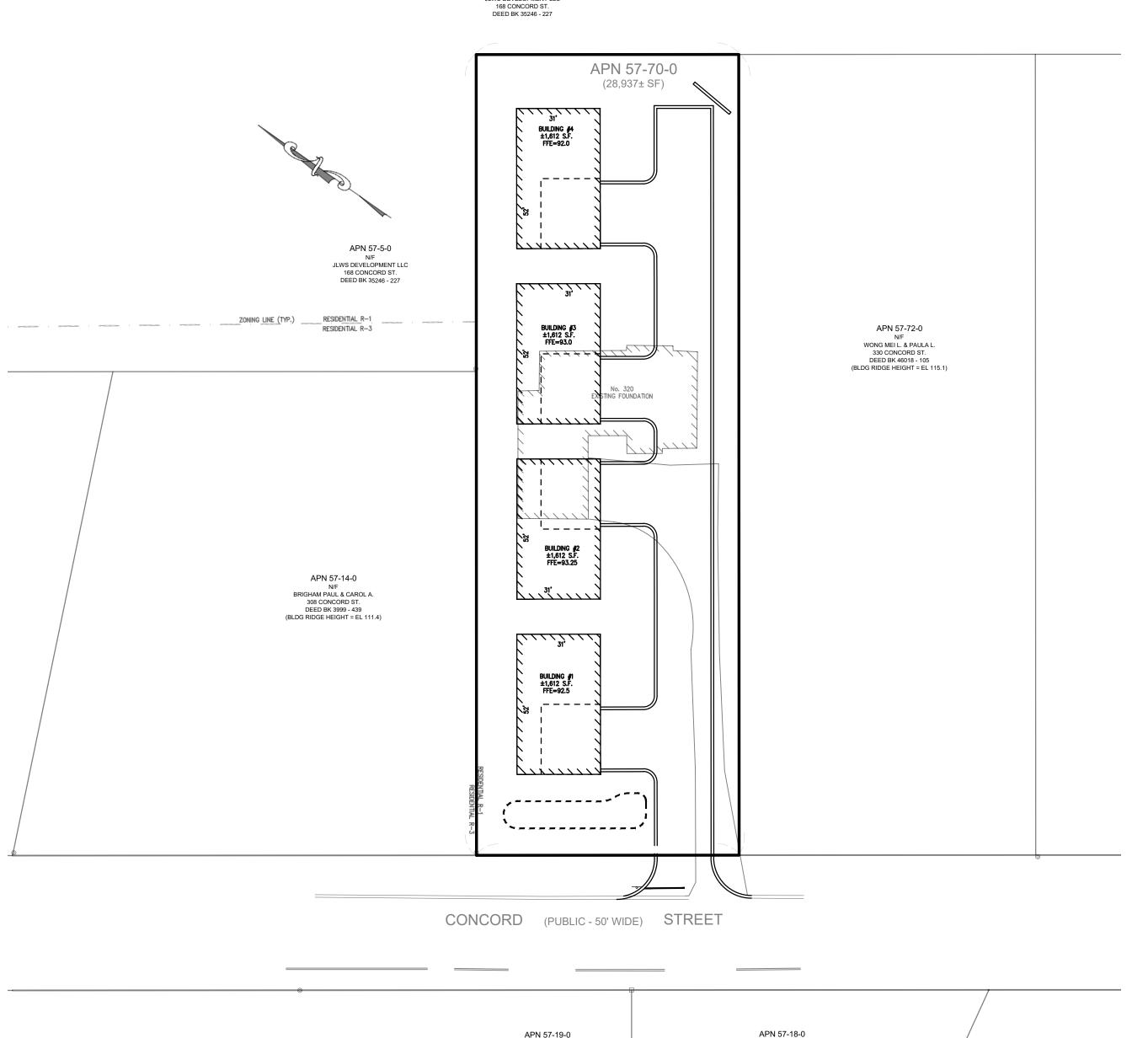
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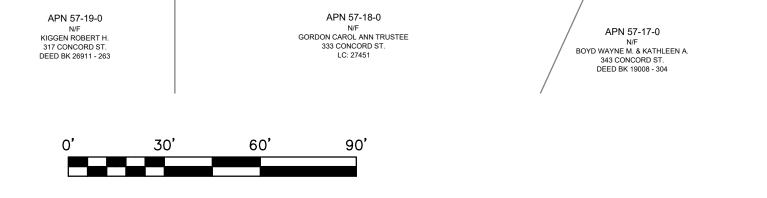


Owner/Applicant:

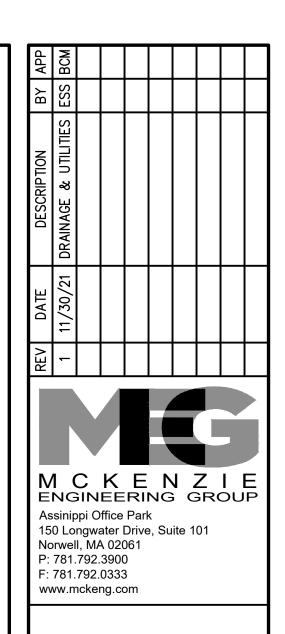
WALL STREET DEVELOPMENT CORP.
2 WARTHIN CIRCLE
NORWOOD, MA 02062

Engineer/Surveyor:

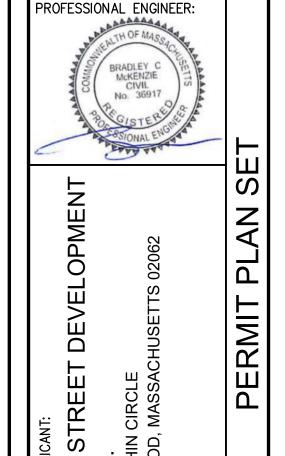
MCKENZIE ENGINEERING GROUP, INC. 150 LONGWATER DRIVE SUITE 101 NORWELL, MASSACHUSETTS 02061



ISSUE DATE: OCTOBER 7, 2021 REVISED: NOVEMBER 30, 2021



(ASSESSOR'S MAP 57, PARCEL 7 320 CONCORD STREET ROCKLAND, MASSACHUSETTS



DRAWN BY:

DESIGNED BY:

CHECKED BY:

APPROVED BY:

DATE:

OCTOBER 7, 2021

SCALE:

1"=30'

PROJECT NO.:

DWG. TITLE:

DWG. TITLE:

COVER

SHEET

DWG. NO:

o: CS-1

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ABBREVIATIONS

PVMT

PWW

RCP

REM

RET

ROW

R&R

R&S

SB/DH

SGE

STA

STL

SW

TCB

TRANS

TSV

VCP

VERT

VGC

REMOD

PAVEMENT

REMOVE

REMODEL

RETAIN

SEWER

STATION

SIDEWALK

TELEPHONE

TRAFFIC LIGHT

TRANSFORMER

TOP OF SLOPE

UTILITY POLE

WATER MAIN WATER GATE

TYPICAL

VERTICAL

STEEL

RAILROAD

RIGHT OF WAY

STONE BOUND

SEWER MANHOLE

SEWER SERVICE

TRAFFIC CONTROL BOX

TELEPHONE MANHOLE

VITRIFIED CLAY PIPE

VERTICAL GRANITE CURB

TAPPING SLEEVE, VALVE AND BOX

REMOVE AND RESET

REMOVE AND STACK

STONE BOUND/DRILL HOLE SLOPED GRANITE EDGING

PAVED WATER WAY

REINFORCED CONCRETE PIPE

ABAN	ABANDONED	Existing	Proposed
ACP	ASBESTOS CEMENT PIPE		
ACR ADJ	ACCESSIBLE CURB RAMP ADJUST	× 100.50	+100.50
APPROX	APPROXIMATE	100.50	100.50 100.00
ASPH ACCMP	ASPHALT	*	*
В	ASPHALT COATED CORRUGATED METAL PIPE BOLLARD	100.50	100.50
BD	BOUND	×	×
BLDG BIT CONC	BUILDING BITUMINOUS CONCRETE	FQ→	म्कुम
ВМ	BENCHMARK	\bowtie	\bowtie
BS CAP	BOTTOM OF SLOPE		@
CB	CORRUGATED ALUMINUM PIPE CATCH BASIN		_
C&C	CUT AND CAPPED	©	©
CB/DH CB/EPLP	CONC. BOUND/DRILL HOLE	E	E
CCB	CB/ESCUTCHEON CAPE COD BERM	\	\(\frac{\dagger}{\dagger}\)
CIP	CAST IRON PIPE	ø	5
CIT C	CHANGE IN TYPE CENTERLINE	,	,
© CLF	CHAIN LINK FENCE	•	•
CO CONC	CLEAN OUT CONCRETE	D	D
COND	CONDUIT	(D)	(D)
CMP	CORRUGATED METAL PIPE		
CPP CS	CORRUGATED POLYETHYLENE PIPE COMBINED SEWER	S	<u>S</u>
CSMH	COMBINED SEWER MANHOLE		III
$\begin{array}{c}CULV\\\Delta\end{array}$	CULVERT DELTA ANGLE		
D	DRAIN		
DCB DIP	DOUBLE CATCH BASIN		
DMH	DUCTILE IRON PIPE DRAIN MANHOLE	~	
E	ELECTRIC	-0-	0
ECC ELEV	EXTRUDED CONCRETE CURB ELEVATION		
EMH	ELECTRIC MANHOLE		•
E/T/C	ELECTRIC, TELEPHONE, & CABLE TV END WALL		•
EW EXIST	EXISTING	//////////////////////////////////////	
FAB	FIRE ALARM BOX	()	
FES FND.	FLARED END SECTION FOUND		
FND	FOUNDATION		
F&C F&G	FRAME AND COVER FRAME AND GRATE		
G	GAS		
GD GG	GROUND GAS GATE		
GIP	GALVANIZED IRON PIPE	X	X
GP	GUARD POST	CTV	CTV
GS GR	GAS SERVICE GUARD RAIL	E/T/C	E/T/C
GRAN.	GRANITE	2.770	2170
HDPE HH	HIGH-DENSITY POLYETHYLENE PIPE HANDHOLE	онш	——————————————————————————————————————
HOR	HORIZONTAL	G	G
HP H W L	HIGH PRESSURE HEADWALL	s	s
HYD	HYDRANT		
INV	INVERT IRON PIN	Б	р
I.P. I.R.	IRON PIN IRON ROD	т ——	т
L	LEAD	w	w
LSA LP	LANDSCAPED AREA LIGHT POLE		
MAX	MAXIMUM		——— FP ———
MC MCC	METAL COVER MONOLITHIC CONCRETE CURB		
MH	MANHOLE	4444	~~~~~~
MHB	MASS. HIGHWAY BOUND		•••••••
MIN MLP	MINIMUM METAL LIGHT POLE		
NIC	NOT IN CONTRACT	<u> </u>	
NTS OHW	NOT TO SCALE OVERHEAD WIRE		
PB	PULL BOX		
PE P	POLYETHYLENE PIPE PROPERTY LINE		
PROP	PROPOSED PROPOSED		
PVC PVMT	POLYVINYL CHLORIDE PIPE PAVFMENT		
r vm i	E A VENIEN I		

LEGEND

GENERAL NOTES

Description

TOP & BOTTOM ELEVATIONS

SPOT ELEVATIONS WITH LEADER

SPOT ELEVATIONS

WATER GATE VALVE

ELECTRIC HANDHOLE

HYDRANT

WELL

GAS GATE

LIGHT POLE

UTILITY POLE

GUY ANCHOR

DRAIN MANHOLE

SEWER MANHOLE

DOUBLE CATCH BASIN

SIGN SINGLE POST

WETLAND FLAG

EXISTING BUILDING

PROPOSED BUILDING

MAJOR CONTOUR

MINOR CONTOUR

CHAINLINK FENCE

CABLE TV LINE

ELECTRIC, TELEPHONE

CABLE TV DUCTBANK

OVERHEAD ELECTRIC

NATURAL GAS LINE

DRAIN PIPE

TELEPHONE LINE

RETAINING WALL

TREELINE

WATER MAIN

SANITARY SEWER MAIN

FIRE PROTECTION LINE

HAYBALE & SILT FENCE

WETLAND RESOURCE(1)

LIMIT BORDERING VEGETATED

100' WETLAND BUFFER ZONE

GRANITE OR CONCRETE BOUND

CATCH BASIN

TEST PIT

BORING

GUY POLE

- SURVEY NOTES:

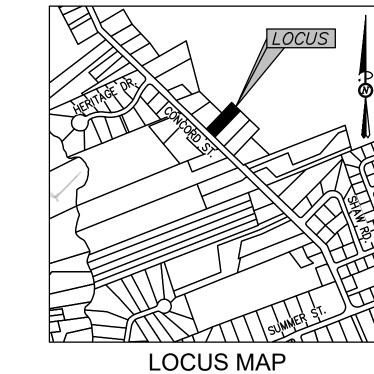
 1. LOCUS IS SHOWN AS PARCEL NUMBER 57-70 ON THE TOWN OF ROCKLAND ASSESSORS MAPS.
- 2. DEED TO LOCUS IS RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS AT BOOK 54287, PAGE 47.
- 3. THIS SURVEY WAS MADE ON THE GROUND IN SEPTEMBER OF 2021 BY MCKENZIE ENGINEERING GROUP, INC. 4. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988
- WETLAND RESOURCE AREAS WERE NOT ENCOUNTERED DURING THE FIELD SURVEY.
- 6. LOCUS IS ZONED R1 MINIMUM SETBACK REQUIREMENTS: FRONT YARD 25'
 - SIDE YARD 15' REAR YARD 50'
- LOCUS IS SITUATED IN ZONE X AS SHOWN ON F.I.R.M. No 25023C0182K, EFFECTIVE JULY 6, 2021.
- LOCUS IS NOT LOCATED IN A DEP ZONE 2 OR TOWN OF ROCKLAND AQUIFER PROTECTION DISTRICT. 9. UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND
- UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233. 10. PLAN REFERENCES: PB

- 1. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY EARTH
- 2. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES, ADDITIONAL SILTATION FENCING AND FILTER FABRIC FOR INSTALLATION AS DIRECTED BY THE TOWN TO MITIGATE ANY EMERGENCY CONDITIONS.
- 3. UPON COMPLETION OF ALL SITE WORK THE CONTRACTOR SHALL INSPECT ALL ON-SITE AND OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND
- DEBRIS THAT HAS ACCUMULATED DURING THE COURSE OF CONSTRUCTION. 4. UNSUITABLE SOILS LOCATED WITHIN THE LIMITS OF THE SUBSURFACE INFILTRATION SYSTEMS SHALL BE REMOVED PRIOR TO INSTALLATION OF THE SYSTEM. THE BOTTOM OF EXCAVATION SHALL BE INSPECTED BY THE PROJECT ENGINEER PRIOR TO THE PLACEMENT OF THE SUBSURFACE CHAMBERS.
- 5. SUBSURFACE INFILTRATION SYSTEM SUBSOIL SHALL BE OVEREXCAVATED UNTIL THE NATIVE SAND MATERIALS ARE ENCOUNTERED (SUBSURFACE SYSTEM, C1 (SAND) LAYER AT APPROX. EL 86.2). THE SUBSURFACE INFILTRATION SYSTEM SHALL BE PLACED OVER IMPORTED SAND CONFORMING WITH THE REQUIREMENTS OF THE MASSACHUSETTS SANITARY CODE (TITLE V) AS NEEDED.

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
- THE CONTRACTOR SHALL COORDINATE ALL STREET WORK WITH THE ROCKLAND DPW.
- 4. THE CONTRACTOR SHALL EXCAVATE THE TEST PITS PRIOR TO INSTALLING THE DOMESTIC WATER SERVICE TO VERIFY THE ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE RESULTS PRIOR TO COMMENCING ANY WORK.
- 5. THE WATER SERVICE SHALL BE INSTALLED WITH 5' OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE. 6. ALL WATER SERVICE APPURTENANCES, MATERIALS, METHODS OF INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
- 7. THE DOMESTIC WATER SERVICE SHALL BE ADEQUATELY PROTECTED AGAINST BACKFLOW (BACKFLOW PREVENTION) AT THE BUILDING.
- 8. AFTER PRESSURE TESTING AND CHLORINATION IS COMPLETED. SAMPLES SHALL BE TAKEN FROM THE DOMESTIC WATER SERVICE AND SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2 HOURS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ABINGTON ROCKLAND JOINT WATER WORKS AT LEAST 24 HOURS
- PRIOR TO THE TESTING. 9. THE DOMESTIC WATER SERVICE SHALL BE TESTED IN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS. A MINIMUM OF 2 SEPARATE WATER SAMPLES SHALL BE TESTED AT A STATE CERTIFIED LABORATORY.
- 10. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN SANITARY SEWER SERVICES AND WATER SERVICE. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER SERVICE THE ELEVATION OF THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER SERVICE. ALL OTHER UTILITIES REQUIRE MINIMUM 5' SEPARATION FROM OTHER UTILITIES.
- 11. ALL GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR-35 UNLESS OTHERWISE NOTED. 12. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE
- CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
- 13. THE LOCATIONS OF PROPOSED ELECTRIC, TELEPHONE AND COMMUNICATION (E.T.C.) SERVICES ARE APPROXIMATE. THE PROJECT ELECTRICAL ENGINEER SHALL VERIFY THESE LOCATIONS PRIOR TO THE START OF CONSTRUCTION. COORDINATE ALL E.T.C. WORK WITH THE APPROPRIATE UTILITY COMPANIES.

14. THE PROPOSED GAS SERVICE LOCATION IS APPROXIMATE ONLY. THE CONTRACTOR SHALL COORDINATE THE

- GAS SERVICE INSTALLATION WITH THE MUNICIPAL GAS COMPANY. 15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ROCKLAND DEPARTMENT OF PUBLIC
- WORKS AND ABINGTON ROCKLAND JOINT WATER WORKS SPECIFICATIONS. 16. ALL EXISTING UTILITIES WITHIN THE SITE ARE TO BE REMOVED UNLESS OTHERWISE STATED TO REMAIN.



IM C K E N Z I E ENGINEERING GROUP Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900

F: 781.792.0333 www.mckeng.com 70

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PROFESSIONAL ENGINEER:

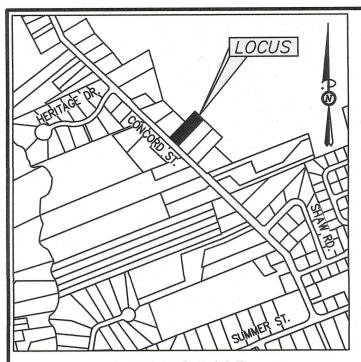
DRAWN BY: DESIGNED BY: CHECKED BY: BCM APPROVED BY: OCTOBER 7, 2021 SCALE:

STRE

PROJECT NO.: 221-187 DWG. TITLE: LEGEND, **ABBREVIATIONS** & GENERAL NOTES

© MCKENZIE ENGINEERING GROUP, INC

DWG. NO:



LOCUS MAP Not to Scale

SURVEY NOTES:

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- MINIMUM SETBACK REQUIREMENTS:

FRONT YARD 25'

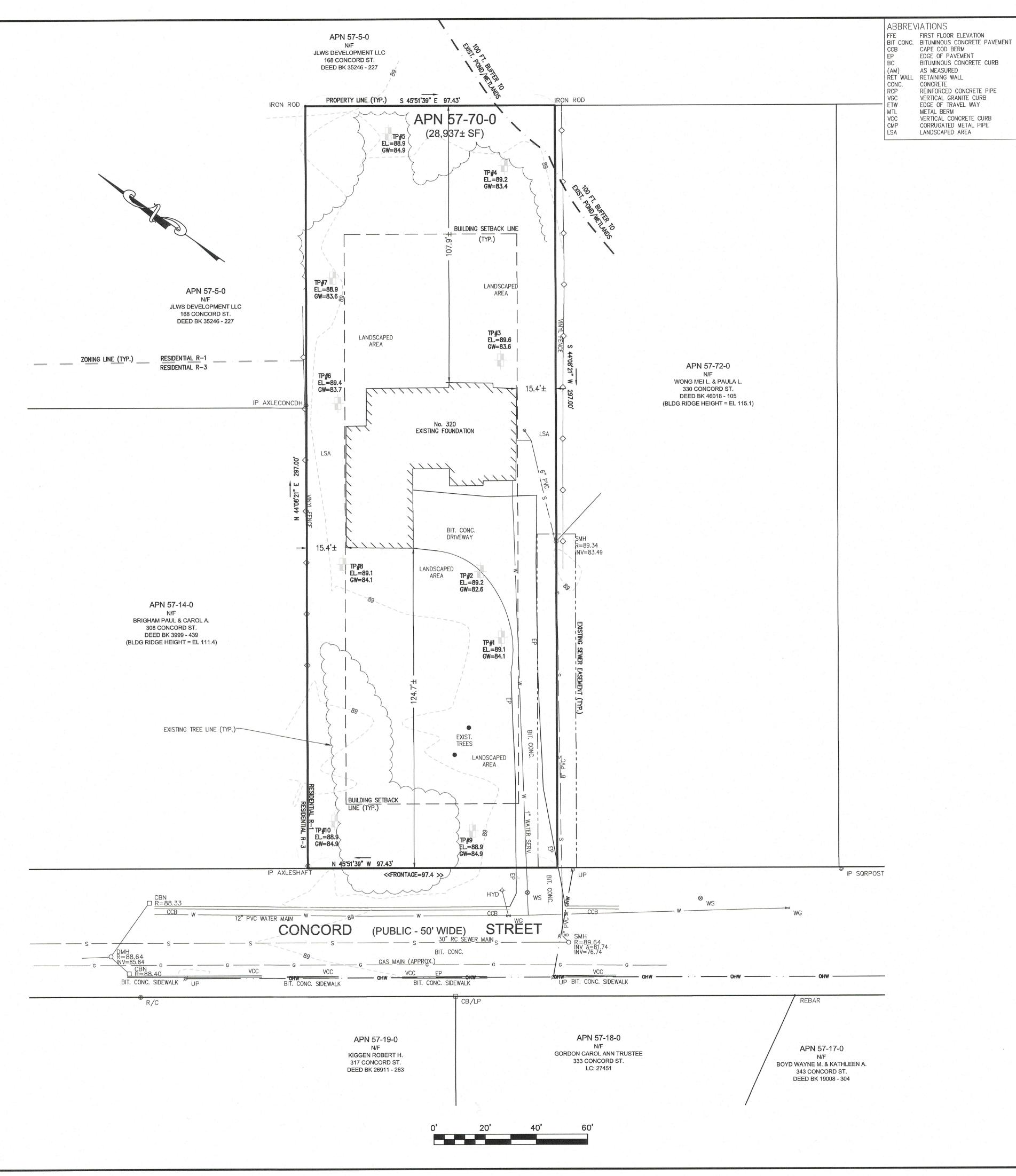
SIDE YARD 15'

REAR YARD 50' LOCUS IS SITUATED IN ZONE X AS SHOWN ON F.I.R.M. No 25023C0182K, EFFECTIVE JULY 6, 2021.

LOCUS IS NOT LOCATED IN A DEP ZONE 2 OR TOWN OF ROCKLAND AQUIFER PROTECTION DISTRICT. 9. UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233.

10. PLAN REFERENCES: PB PG

11. BUFFER ZONE TO OFF-SITE WETLAND RESOURCE AREAS SHOWN ON PLAN IS BASED ON MASSGIS DATA AND APPROXIMATE ONLY.



LEGEND

SURVEY SYMBOLS

 REBAR ✓ ANGLE IRON CB/DH ☐ CONCRETE BOUND WITH DRILL HOLE

SB □ STONE BOUND SB/DH ☐ STONE BOUND

UTILITY SYMBOLS

EX CHIMNEY Ø GUY POLE

→GW GUY WIRE ⊟ HVAC UNIT

BUILDING LIGHT W/MAST
BUILDING LIGHT

TRANSFORMER WATER GATE EXH⊗ EXHAUST VENT AIR VENT

 □ DRAINAGE SUMP EMH ELECTRIC MANHOLE SMH SEWER MANHOLE O DMH DRAIN MANHOLE

TMH TELEPHONE MANHOLE ☐ CBN DRAINAGE CATCH BASIN DOOR WAY THRESHOLD -- HYDRANT す POST INDICATER VALVE

Ø UTILITY POLE X YARD LIGHT RIP RAP

oB BOLLARD d SIGN □FA FIRE ALARM

> DECIDUOUS TREE CONIFEROUS TREE

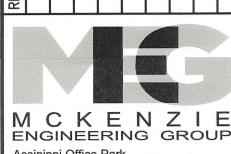
LINE DESIGNATORS

JERSEY BARRIER GUARD RAIL

----OHW-----OVERHEAD WIRES ---- G ---- GAS LINE -----WS------ WATER SERVICE ---- E ---- UNDERGROUND ELECTRIC

SANITARY SEWER LINE

DRAINAGE SWALE --- X --- CHAIN LINK FENCE



Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

70) STING CONDITIONS PL SESSOR'S MAP 57, PARCEL 7 320 CONCORD STREET OCKLAND, MASSACHUSETTS

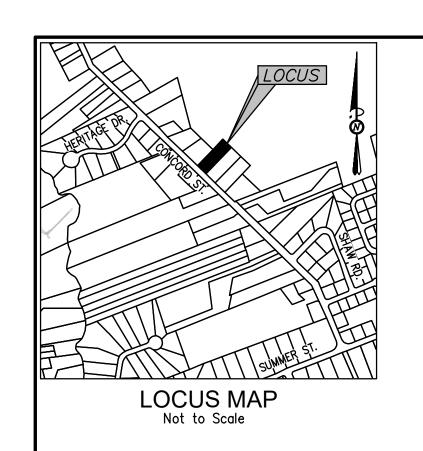
DRAWN BY:

DESIGNED BY: CHECKED BY: APPROVED BY: OCTOBER 7, 2021 SCALE: 1"=20" PROJECT NO.: 221-187 DWG. TITLE:

EXISTING CONDITIONS PLAN

© MCKENZIE ENGINEERING GROUP, INC. M:\MEG\2021 PROJECTS\221-187 WALL ST. DEV. CORP. - 320 CONCORD ST., ROCKLAND\DWGS\221-187 ECP.DWG

DWG. NO:

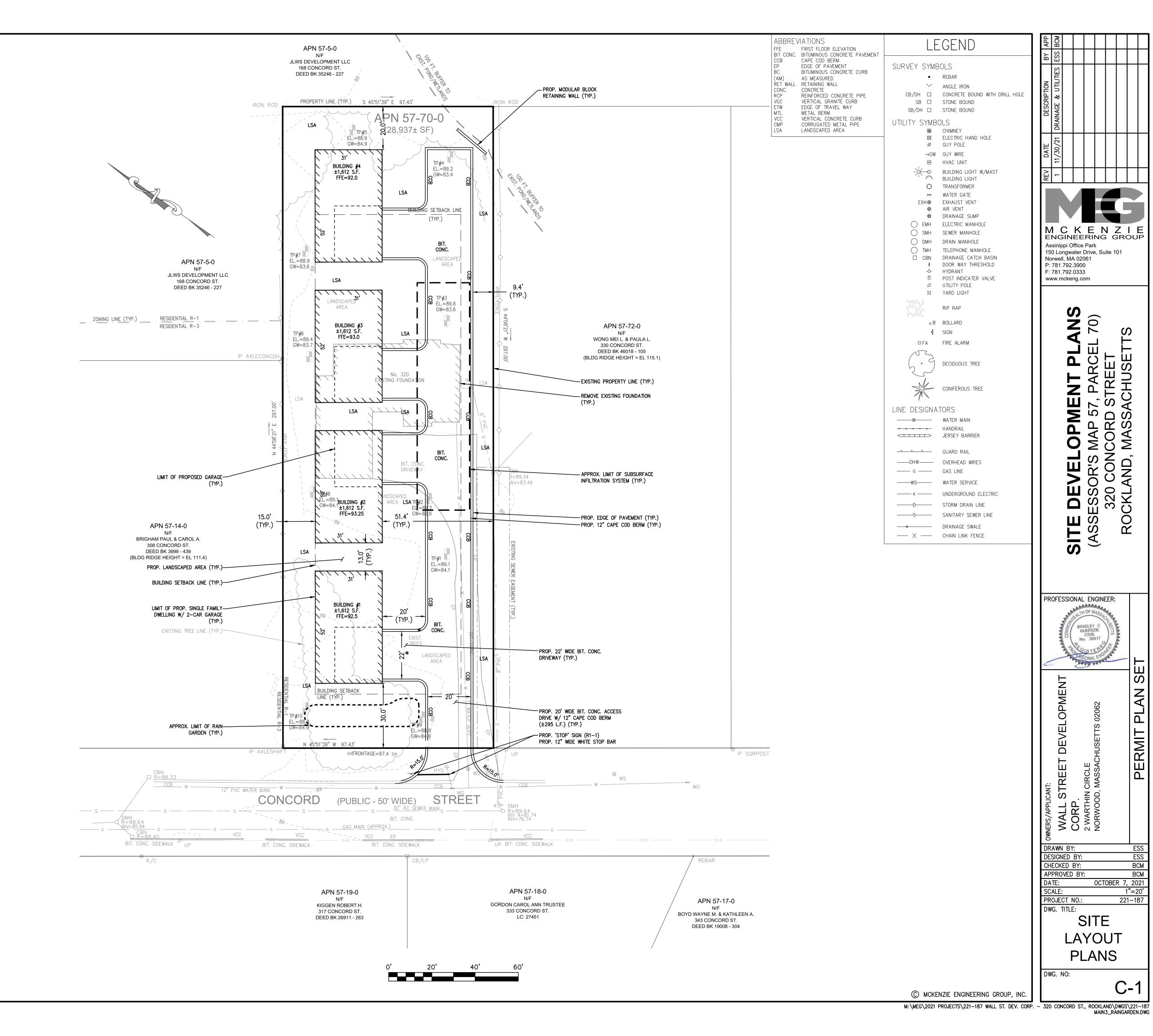


LAND USAGE TABLES

ARTICLE V - BUILDING, LOT AND GENERAL DISTRICT REGULATIONS

RESIDENTIAL (R-1) ZONING DISTRICT			
CRITERIA	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	32,670 S.F.	28,937 S.F.	28,937 S.F.
MIN. FRONTAGE AND LOT WIDTH	110 FT.	97.4 FT.	97.4 FT.
MAX. HEIGHT	2.5 STORIES/30 FT.*	1 STORY	<2.5 STORIES
MAX. BUILDING COVERAGE	25%	10.2%	22.3%
MAX. DWELLING UNITS PER 32,670 S.F.	1	1	4.5
MIN. FRONT YARD	25 FT.	124.7 FT.	30.0 FT.
MIN. SIDE YARD	15 FT.	15.4 FT.	15.0 FT.
MIN. REAR YARD	50 FT.	107.9 FT.	20.0 FT.
TOTAL IMPERVIOUS AREA	-	5,639 S.F.	14,512 S.F.

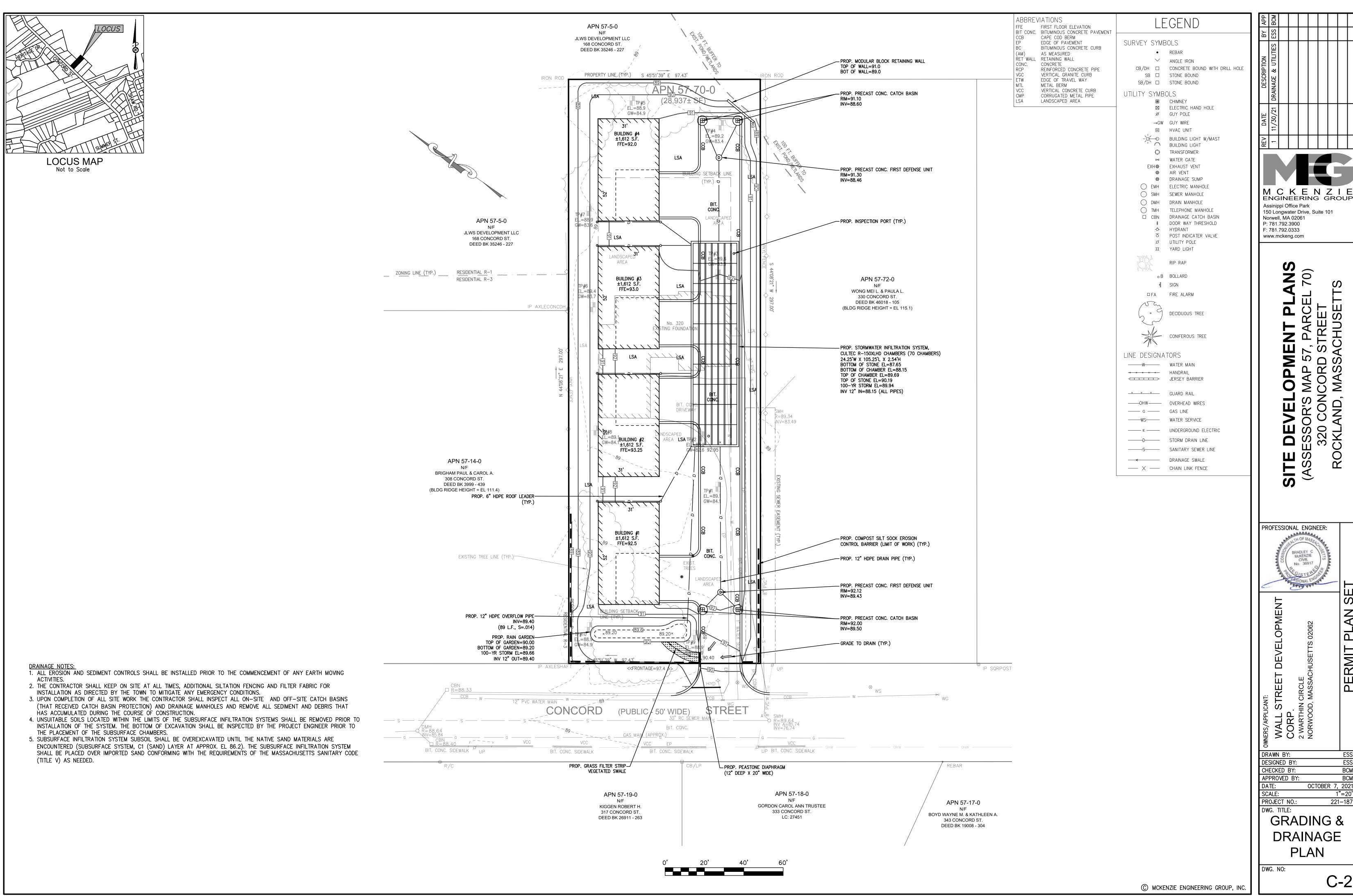
* THE MAXIMUM HEIGHT (STORIES/FEET) MAY BE INCREASED TO 3.0/36 ON LOTS WITH AN AREA OF 32,670 S.F. OR GREATER AND THAT THE STRUCTURE MEETS ALL THE CURRENT SETBACKS.



BCM

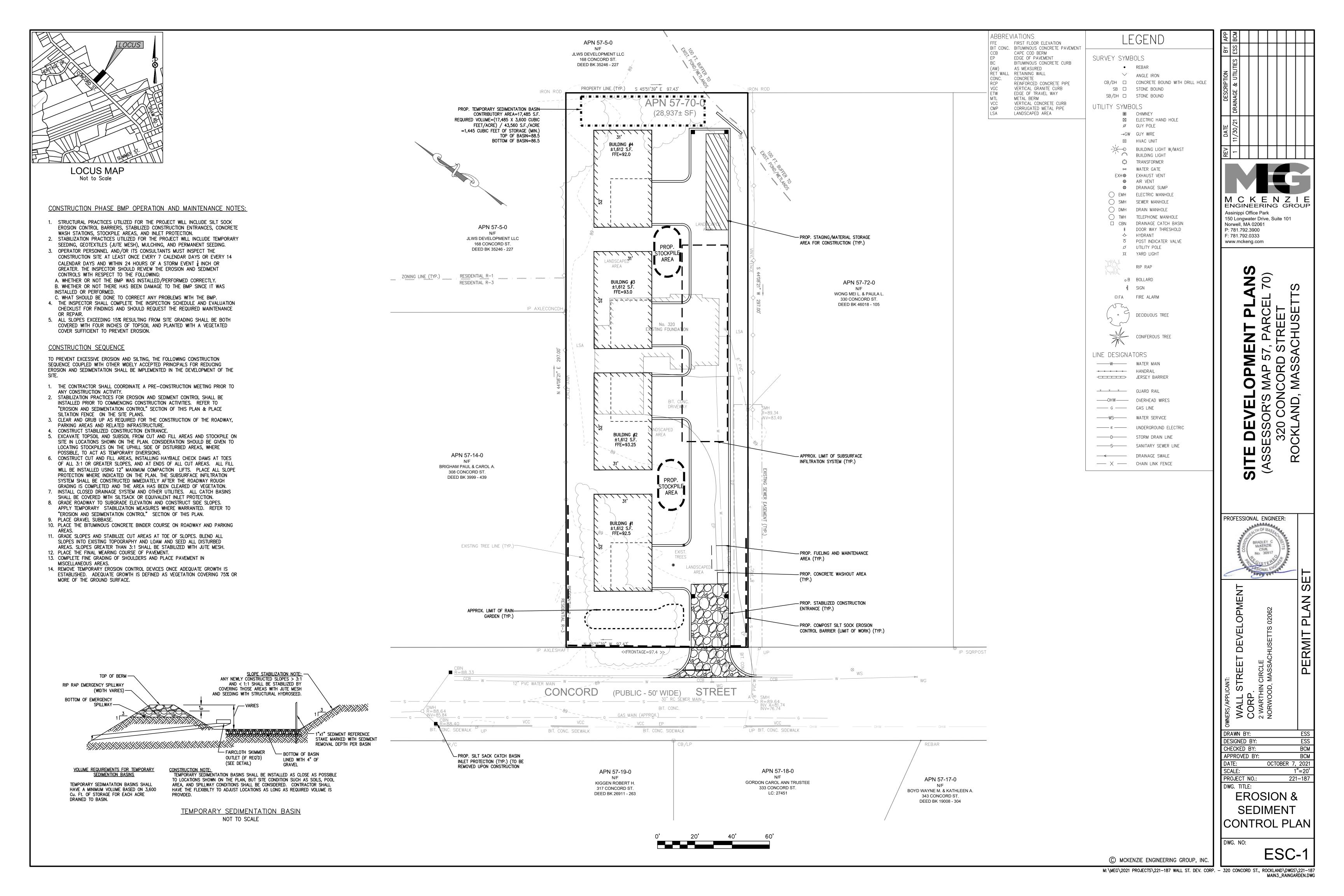
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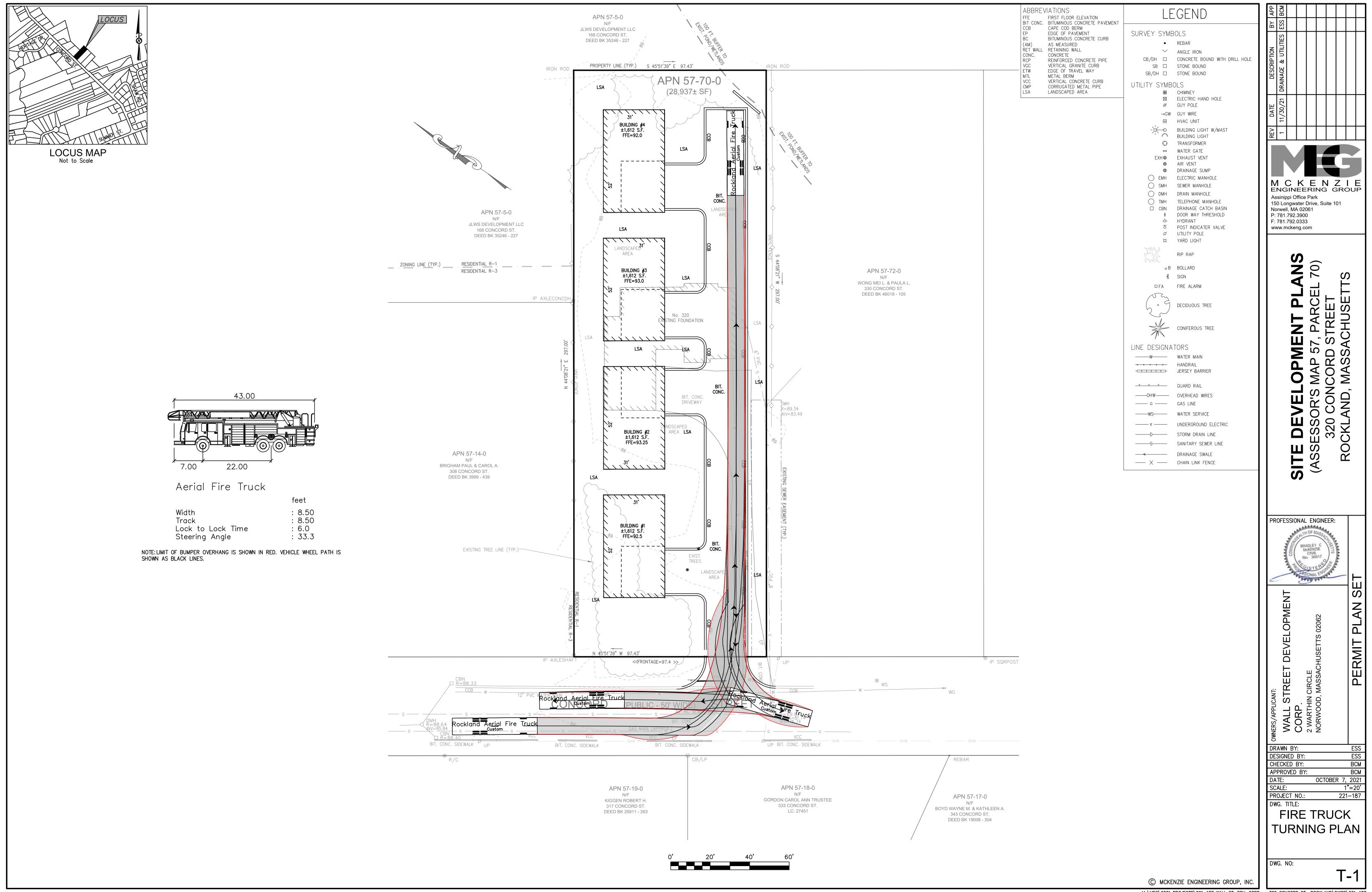
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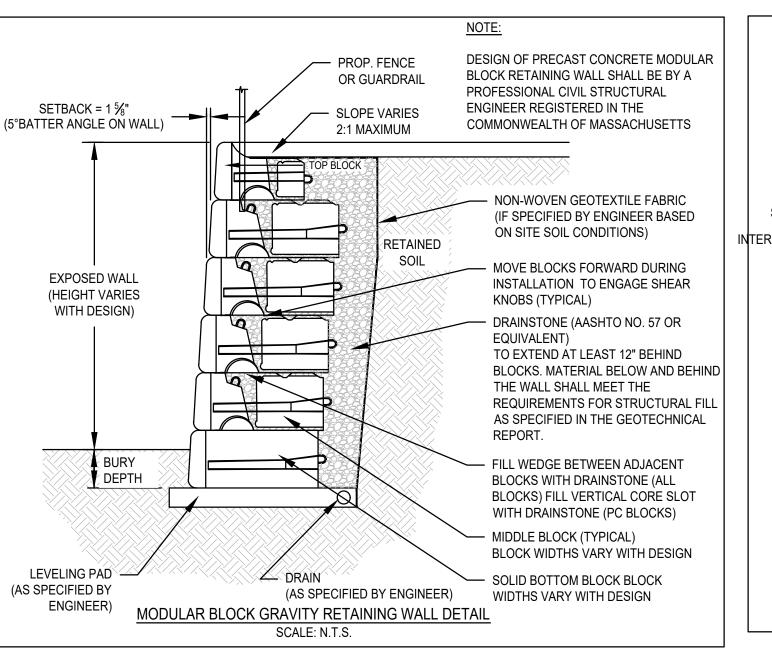
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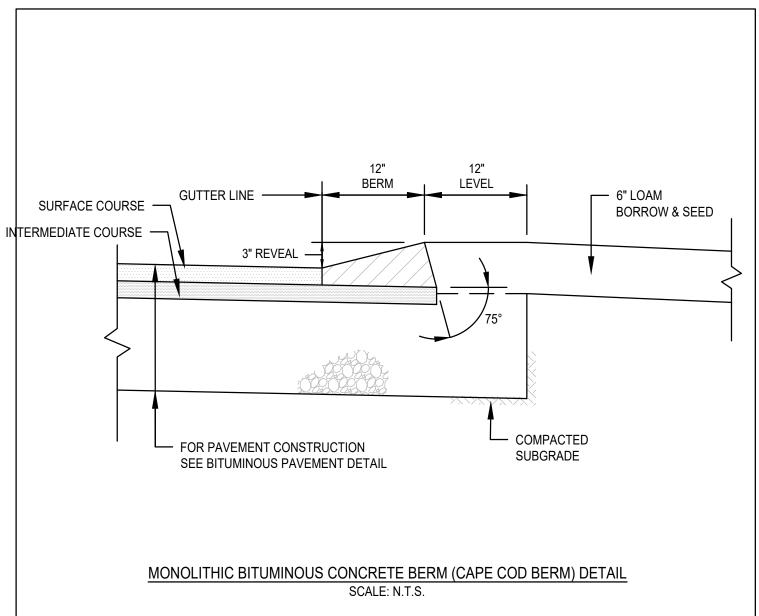
C-2

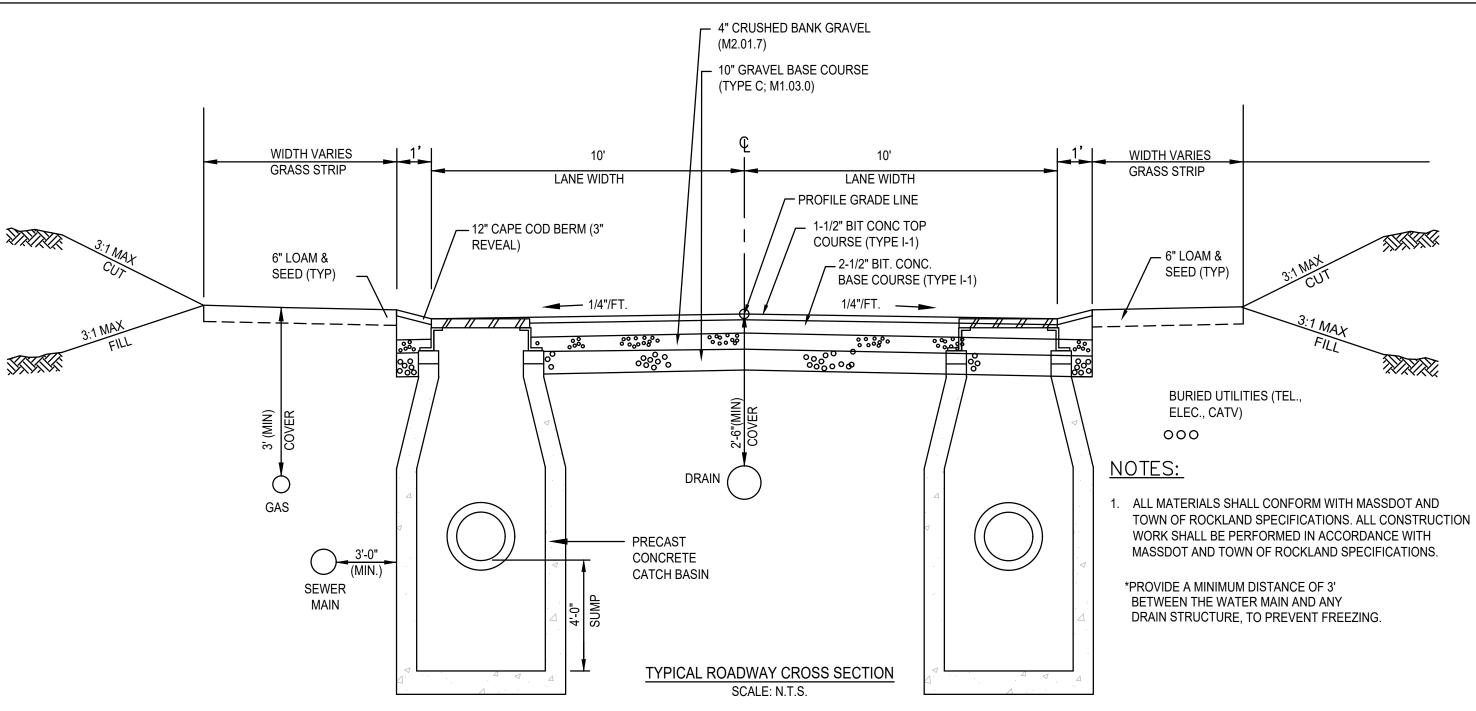


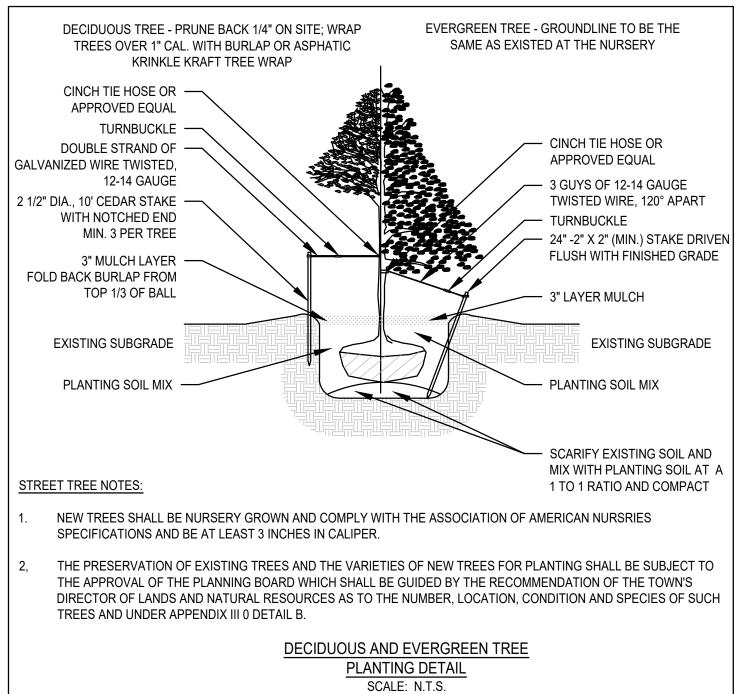


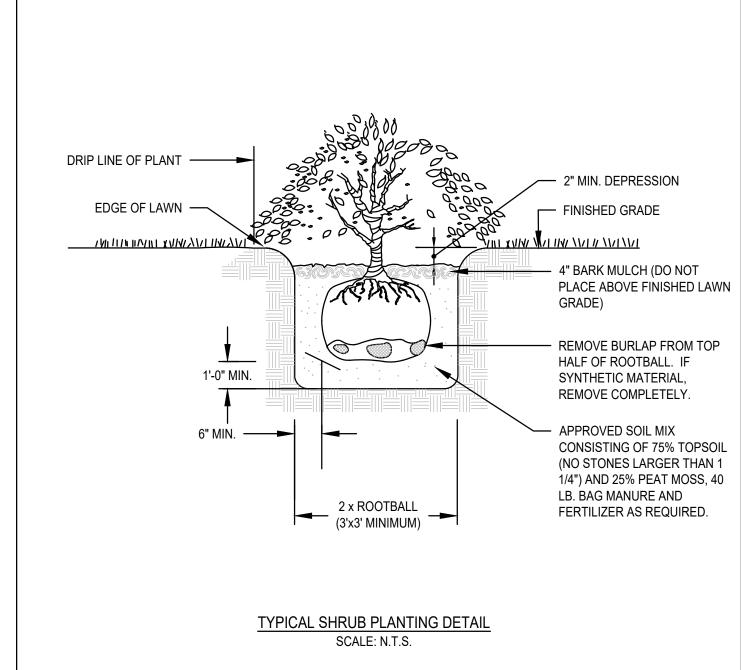
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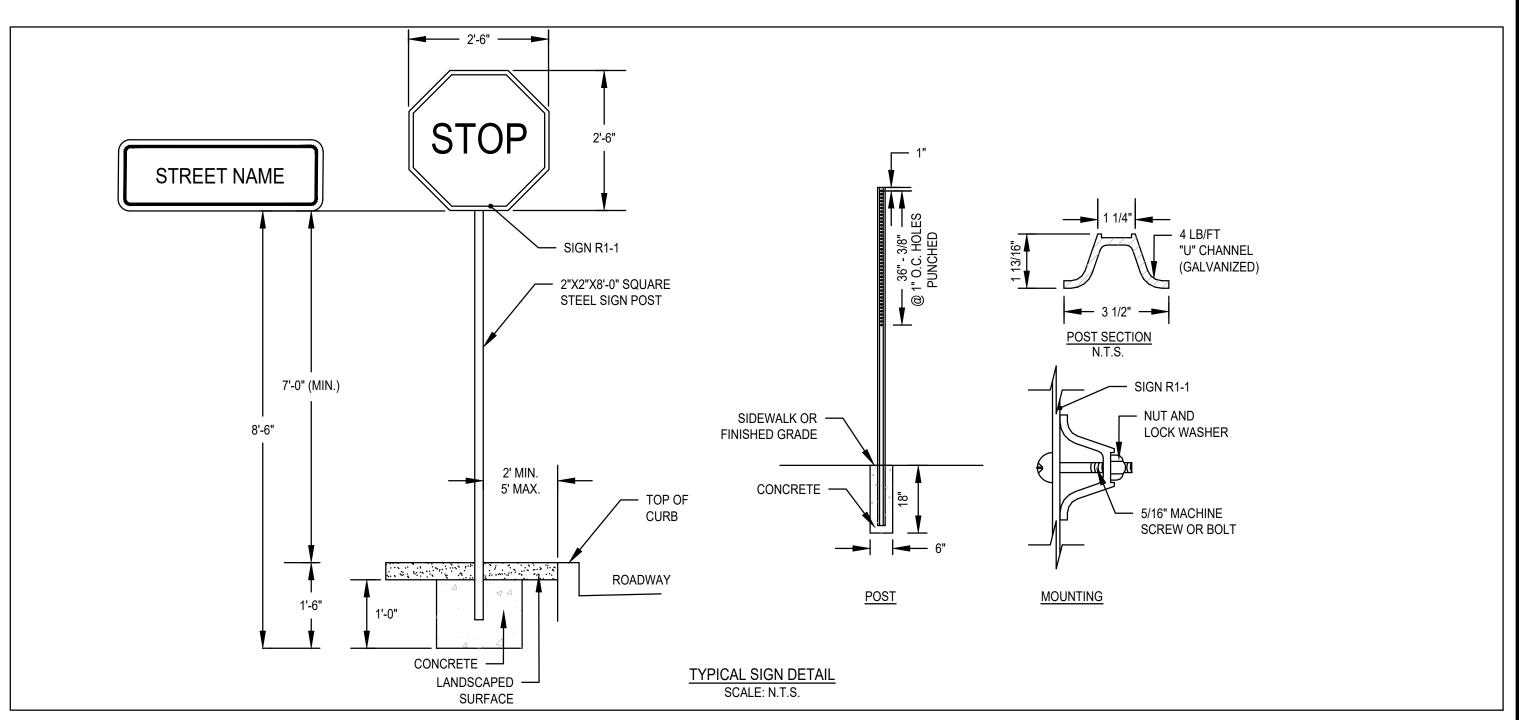












1'-6" 1'-0" CONCRETE — LANDSCAPEE	ROADWAY	<u>POST</u> AL SIGN DETAIL	MOUNTING	
SURFACE	C	CALE: N.T.S.		
SEEDING SPECIFICATIONS			SEEDING RATES	
SEEDING RECOMMENDATIONS			POUND / ACRE	POUNDS / 1,000 S.F.
SEEDBED PREPARATION		A. TALL FESCUE	20	0.45
A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.	THE SITE TO	CREEPING RED FESCUE REDTOP TOTAL	20 2 42	0.45 <u>0.05</u> 0.95
B. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED BE INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHE SHOULD BE TILLED TO A DEPTH OF ABOUT FOUR INCHES TO PREPARE A SI FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PER	RE FEASIBLE, THE SOIL EEDBED AND MIX REASONABLY FIRM	B. TALL FESCUE CREEPING RED FESCUE BIRDSFOOT TREFOIL TOTAL	15 10 15 40	0.35 0.25 0.35 0.95
SLOPE WHEREVER PRACTICAL. 2. ESTABLISHING A STAND		C. TALL FESCUE CREEPING RED FESCUE BIRDSFOOT TREFOIL	20 20	0.45 0.45
A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF S		TOTAL	$\frac{8}{48}$	0.20 1.10
INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTII BASED ON EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILAR MINIMUM AMOUNTS SHOULD BE APPLIED:		D. BIRDSFOOT TREFOIL REDTOP TOTAL	10 <u>5</u> 15	0.25 0.10 0.35
AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 100 LBS. PER 10 NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 10		E. TALL FESCUE	20	0.45
PHOSPHATE (P O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1 POTASH (K O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1		FLATPEA TOTAL	30 50	0.75 1.20
(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTI PER ACRE OF 5-10-10 FERTILIZER)	LIZER OR 1,000 LBS.	F. CREEPING RED FESCUE 1/ KENTUCKY BLUEGRASS 1/ TOTAL	85 <u>85</u> 170	2.00 2.00 4.00
B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIA METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHE USED, COVER SEED WITH 0.25 INCH OF SOIL OR LESS, BY CULTIVATING OR	RE BROADCASTING IS	G. TALL FESCUE 1/	150	3.60
C. REFER TO SEEDING RATES AND SEEDING GUIDES FOR APPROPRIATE SEED		<u>TEM</u>	PORARY SEEDING RATES	
RATES OF SEEDING.	MIXTORES AND	H. WINTER RYE	112	2.50 (BEST FOR FALL SEEDING, AUG 15 TO SEPT. 5)
D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EAF EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SEARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.		OATS ANNUAL RYEGRASS TOTAL	80 <u>40</u> 232	2.00 (BEST FOR SPRING SEEDING, BEFORE MAY 15) 1.00 (BEST FOR FALL SEEDING, AUG 15 TO SEPT. 15) 5.50 (MAY BE USED EARLY SPRING ALSO)
3. <u>MULCH</u>		1/ FOR HEAVY USE ATHLETIC FIELDS TURF SPECIALIST FOR CURRENT V		OF NEW HAMPSHIRE COOPERATIVE EXTENSION TES.
A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMI SEEDING.	EDIATELY AFTER	SEEDING GUIDE		
B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES AS SPECIFIED IN THE "PRACTICES OPERATION AND MAINTENANCE PLAN"	BEST MANAGEMENT	<u>USE</u>	SEEDING <u>MIXTURE 1/</u>	
4. MAINTENANCE TO ESTABLISH A STAND		STEEP CUTS AND FILLS, BORROW	E	
 A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZIN DENSE WEED GROWTH. 	G, TRAFFIC, AND	AND DISPOSAL AREAS		
B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMEN BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHE	IT OF THE STAND	WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	D	
C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITION OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WC		LAWN AREAS	F	
NOTES:	I Manyana da tara a sa			
TOP OF LOAM (TOPSOIL) IS FINISHED GRADE. TOPSOIL SHALL CONTAIN PETWEEN 59/ AND 139/ ORGANIC MATTER.			PREPARED SEE OR SOD	EDED LAWN
 TOPSOIL SHALL CONTAIN BETWEEN 5% AND 12% ORGANIC MATTER AND SHALL HAVE A MAXIMUM STONE SIZE OF 3/4" AND SHALL CONFORM TO THE FOLLOWING GRADATION: 				
SIEVE % PASSING		50	PREPARED SCF TOPSOIL (NO S	
1 1/4 INCH 100 No.4 85-100			LARGER THAN:	
No.40 60-85 No.100 38-60				
No.200 28-40			PREPARED SUE	BGRADE

SEEDED OR SODDED LAWN DETAIL

SCALE: N.T.S.

MCKENZIE

ENGINEERING GROUP

150 Longwater Drive, Suite 101

ANS - 70)

OPMENT
MAP 57, PAF
ICORD STRE
MASSACHU

DE 320

PROFESSIONAL ENGINEER:

STREET

DRAWN BY:

DESIGNED BY:

CHECKED BY:

APPROVED BY:

PROJECT NO.:

DWG. TITLE:

DWG. NO:

CONSTRUCTION

DETAILS

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BCM

OCTOBER 7, 2021

AS NOTED

221-187

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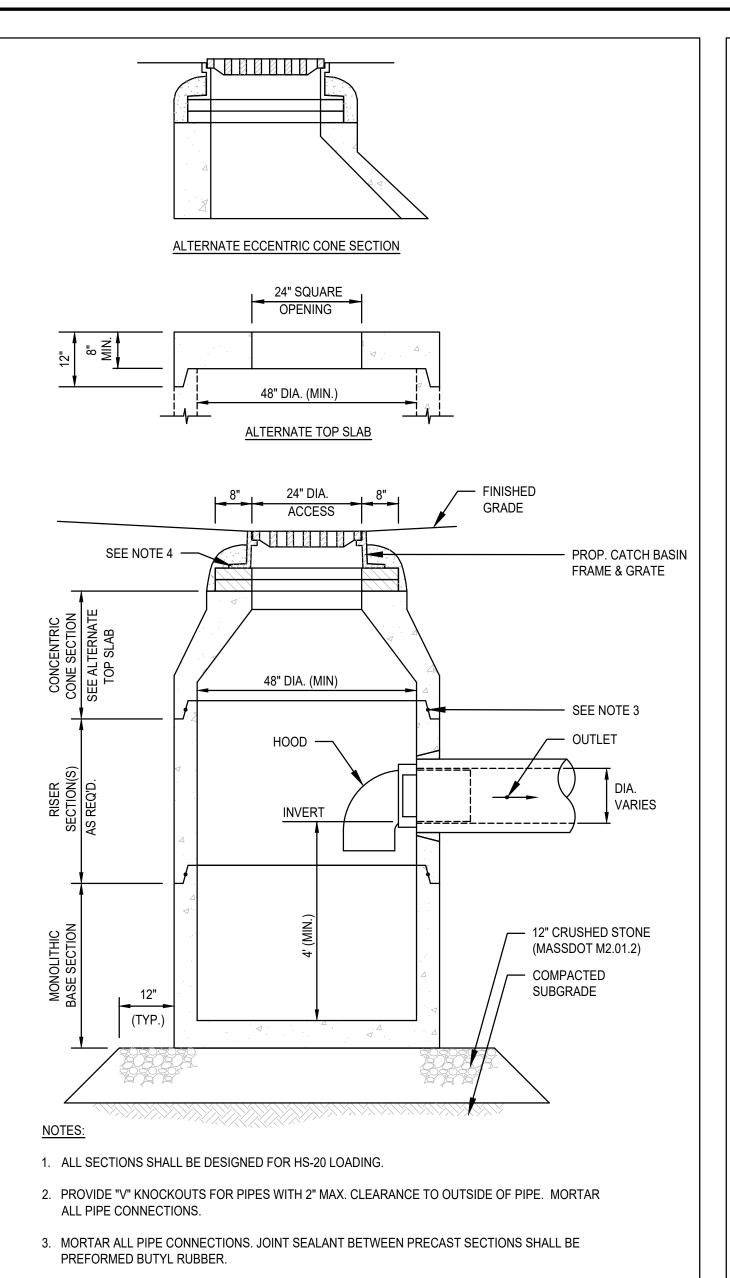
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P: 781.792.3900

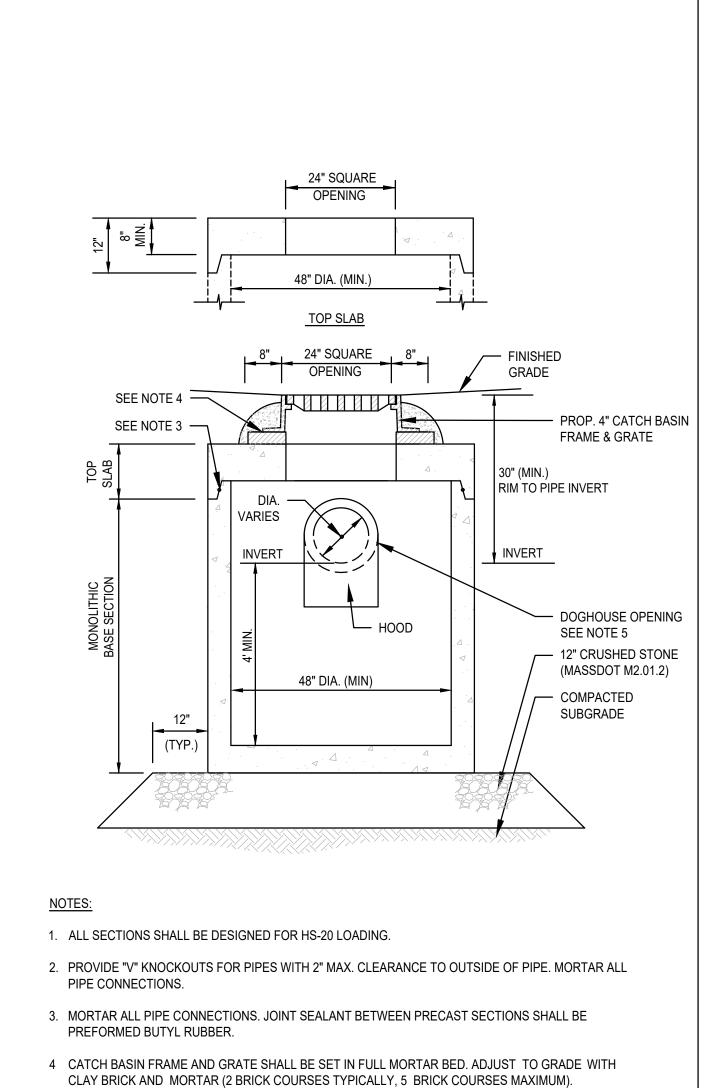
F: 781.792.0333

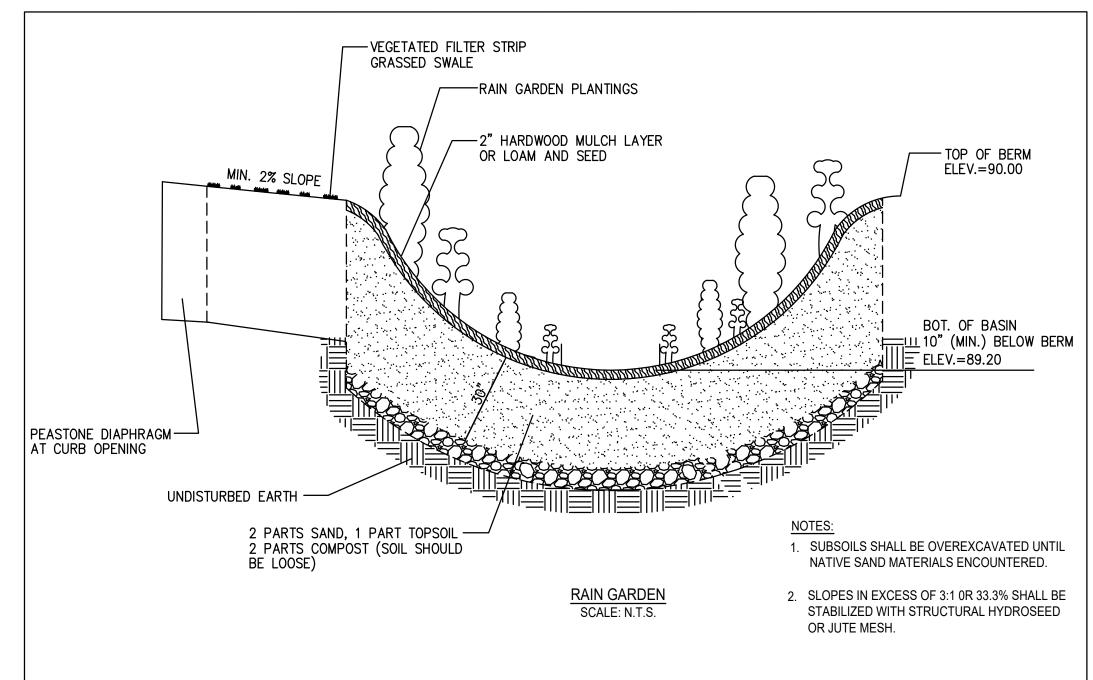
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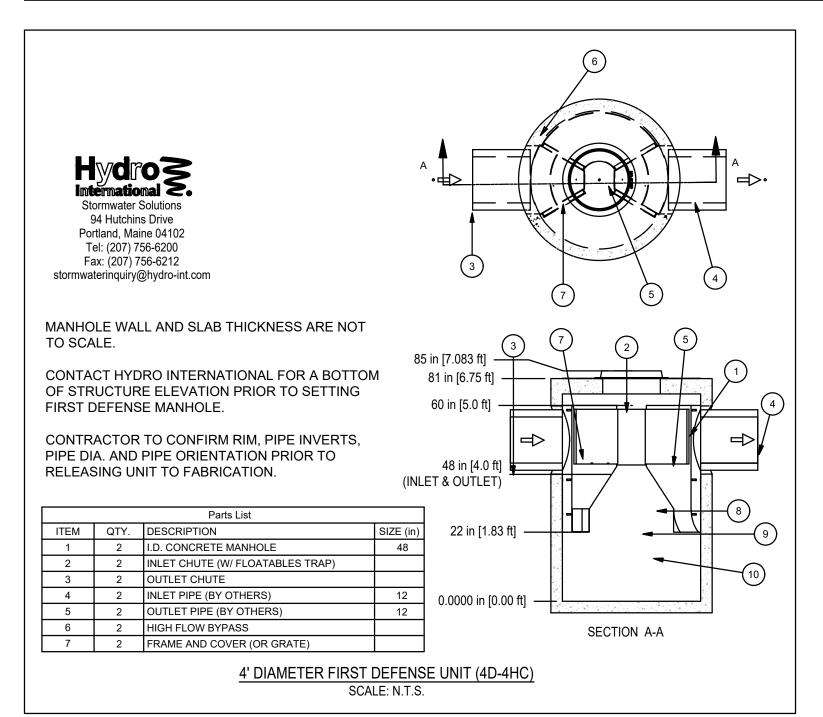


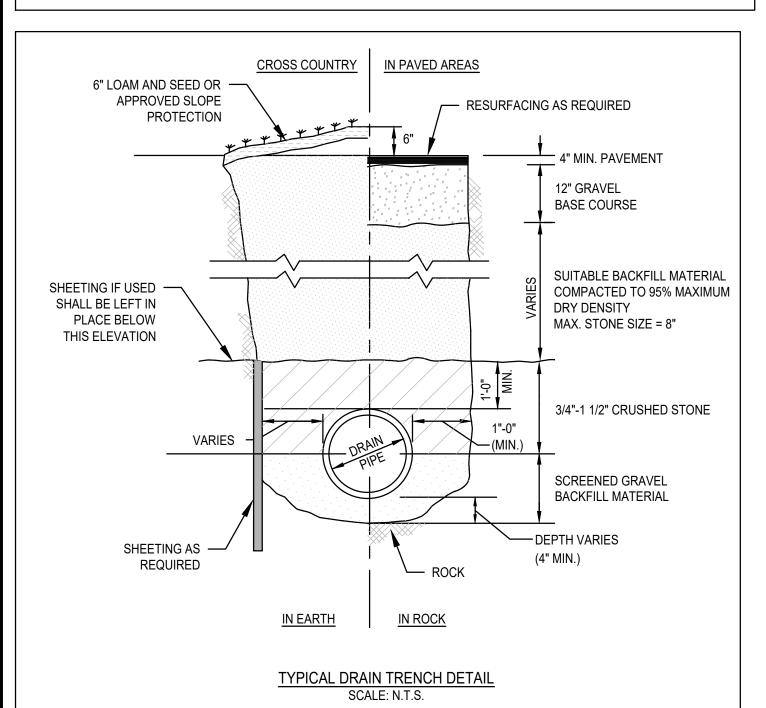
4 CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

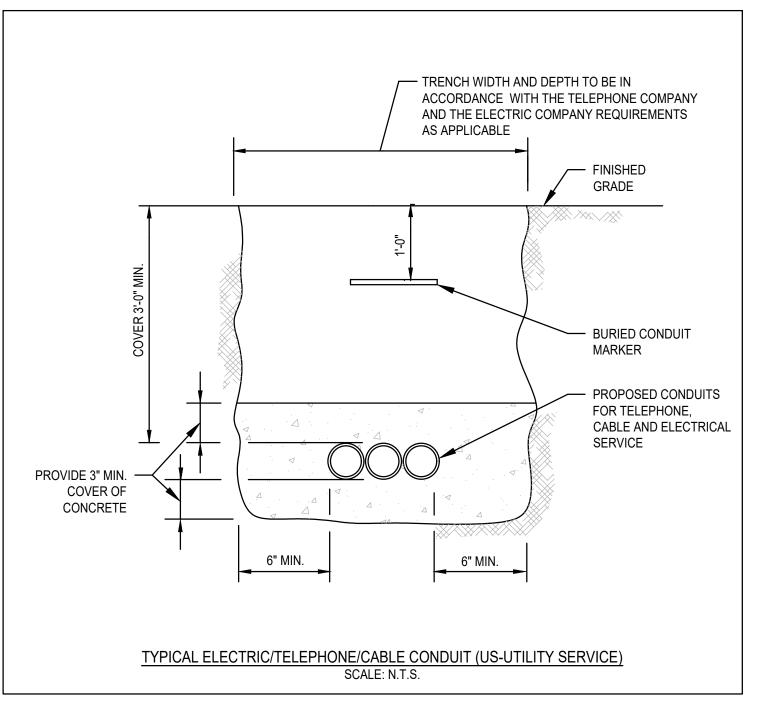
> CATCH BASIN W/HOOD SCALE: N.T.S.







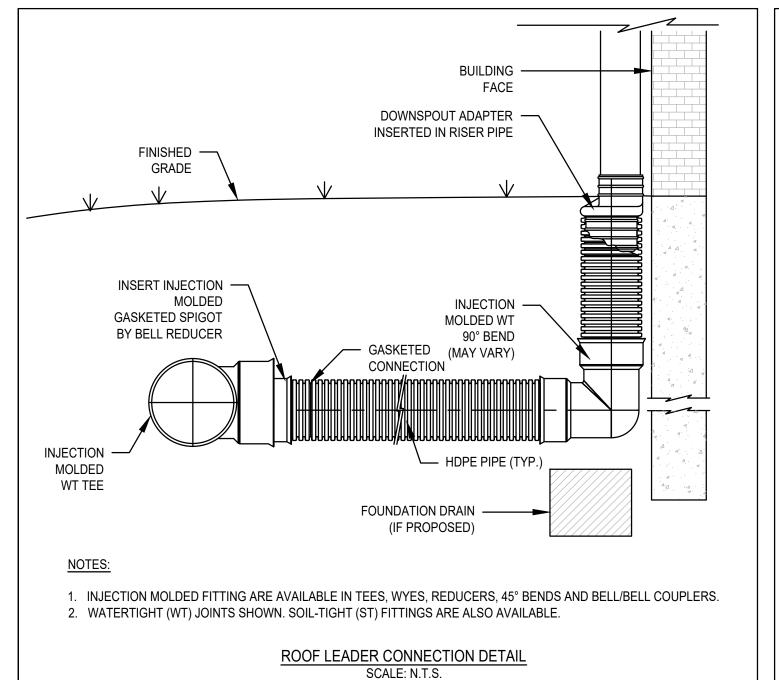


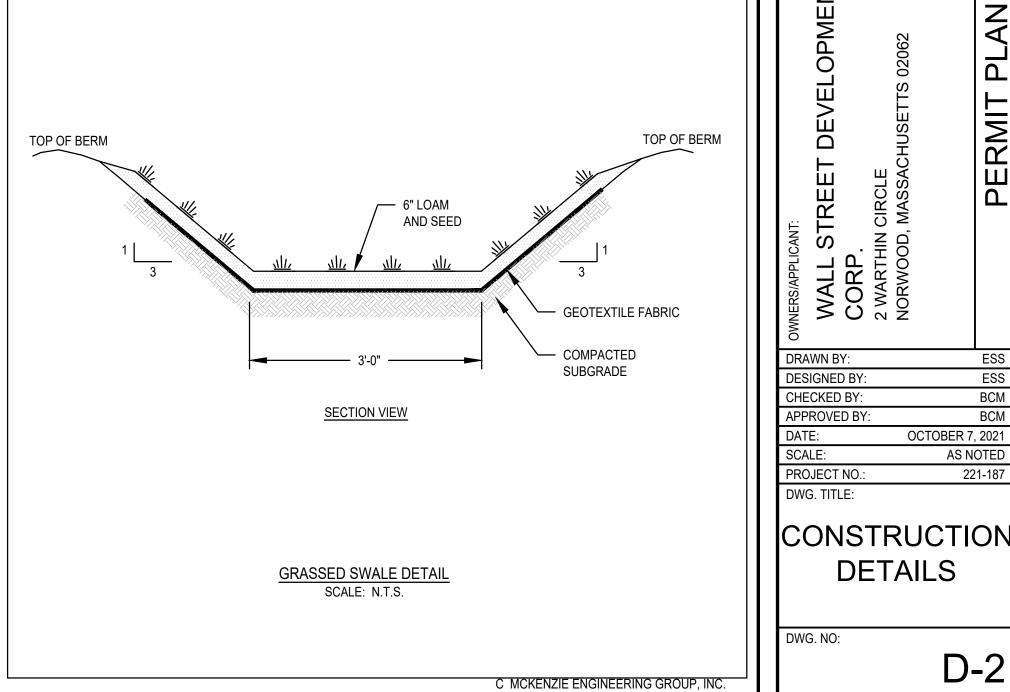


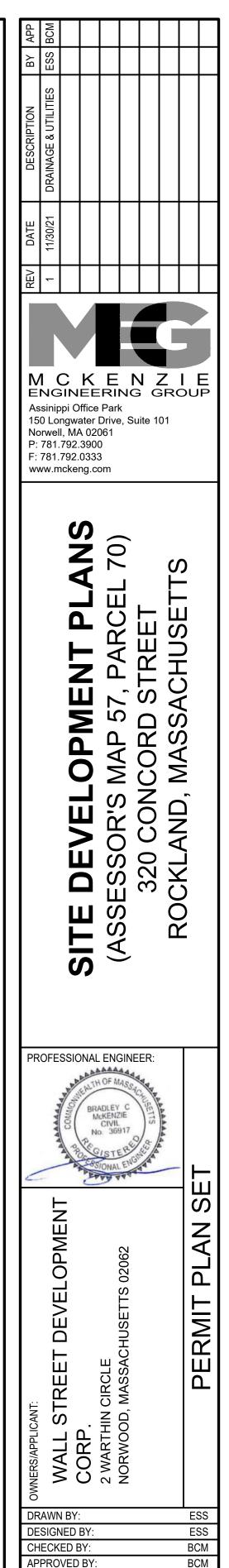
5. PROVIDE DOG HOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP

SHALLOW CATCH BASIN SCALE: N.T.S.

SLAB SHOULD NOT REST DIRECTLY ON PIPE. MORTAR ALL PIPE CONNECTIONS.







OCTOBER 7, 2021

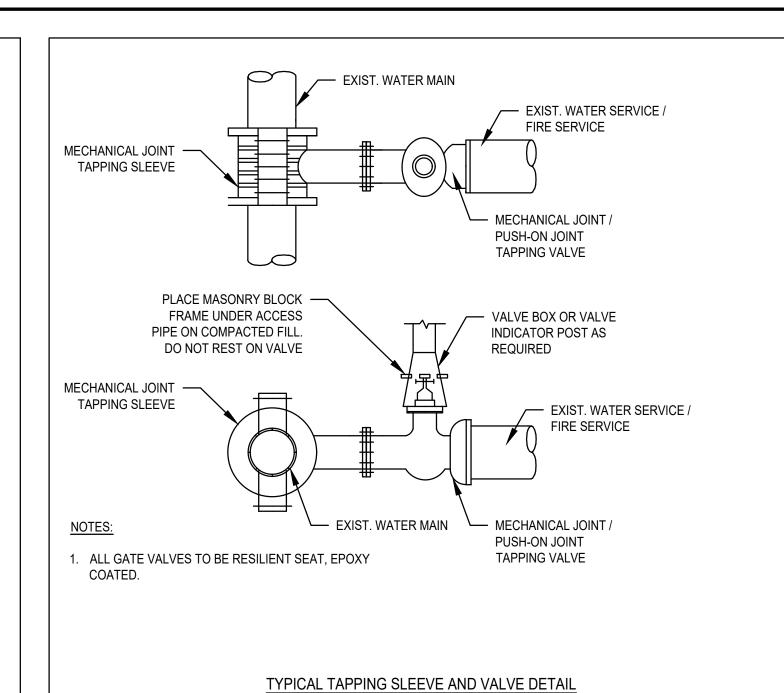
DETAILS

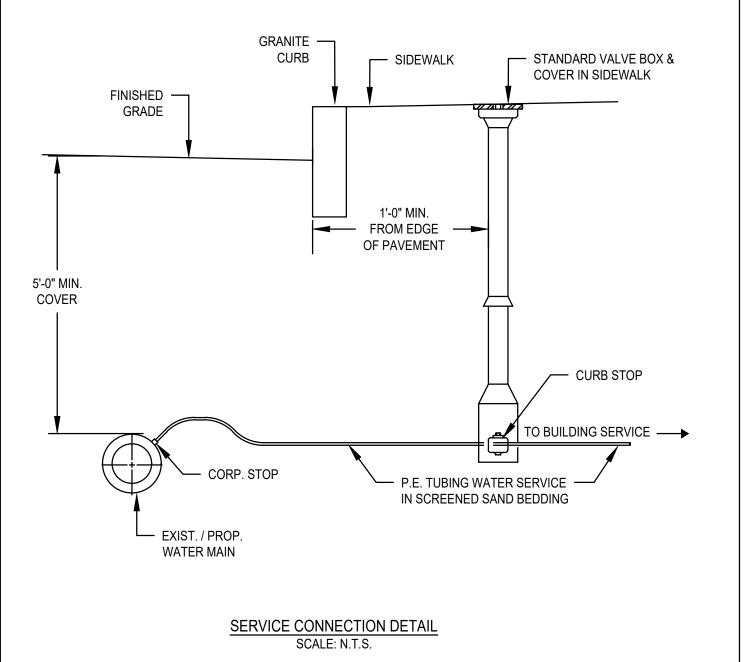
AS NOTED

221-187

GENERAL NOTES

- 1. IF SHEETING IS USED, IT SHALL BE CUT OFF NO MORE THAN 12" ABOVE TOP OF PIPE.
- 2. ALL PIPES SHALL BE PRESSURE TESTED AT 200 PSI WORKING PRESSURE FOR A MINIMUM DURATION OF TWO
- WATER SYSTEM IS TO BE DISINFECTED TO 50 P.P.M. AVAILABLE CHLORINE AND AFTER 24 HOURS TO 25 P.P.M. OR AS REQUIRED BY ABINGTON ROCKLAND WATER SUPERINTENDENT/ENGINEER.
- WATER PIPE IS TO BE CEMENT LINED DUCTILE IRON "TYTON" OR EQUAL TYPE JOINT, CONFORMING TO A.N.S.I./A.W.W.A. C150/A21.50, CLASS 52, AS APPROVED BY THE TOWN'S WATER SUPERINTENDENT/ENGINEER.
- ALL PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH A.W.W.A. STANDARDS PRIOR TO PAVING IF PAVING ABOVE TRENCH IS REQUIRED.
- 6. BACKFILL IS TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY BY AASHTO T-180 D.
- 7. ALL WATER PIPE SHALL BE LAID WITH A MINIMUM OF 5 FEET OF COVER OF APPROVED MATERIALS.
- 8. RESULTS FROM PRESSURE TESTING AND DISINFECTION SHALL BE FURNISHED TO THE DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO WATER BEING TURNED ON.
- 9. ALL WORK SHALL BE IN CONFORMANCE WITH ABINGTON ROCKLAND JOINT WATER WORKS STANDARDS.
- 10. ALL PERMITS REQUIRED FOR STREET OPENINGS AND WATER MAIN TAPPING MUST BE OBTAINED.
- 11. NO WATER WILL BE TURNED ON IN THE PROJECT WITHOUT ABINGTON ROCKLAND JOINT WATER WORKS APPROVAL.





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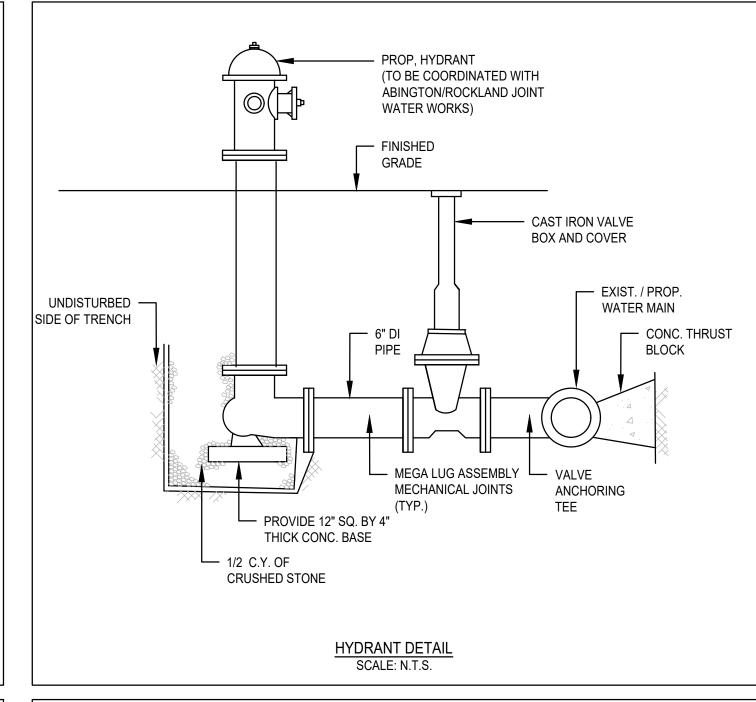
1. VALVES SHALL OPEN TO THE RIGHT.

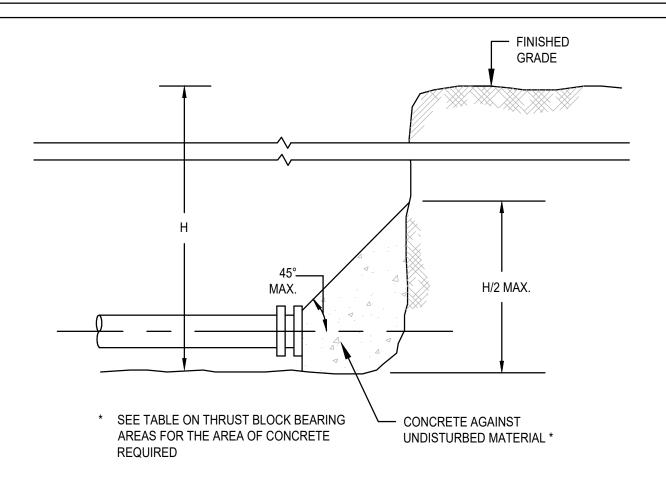
WATER GATE DETAIL SCALE: N.T.S.

NOTES:

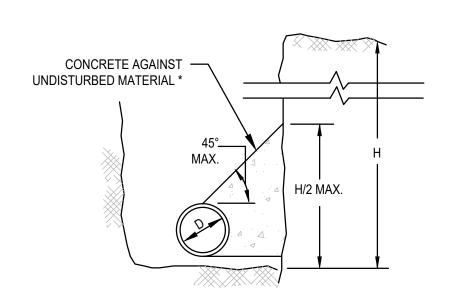
CONCRETE AGAINST

UNDISTURBED MATERIAL





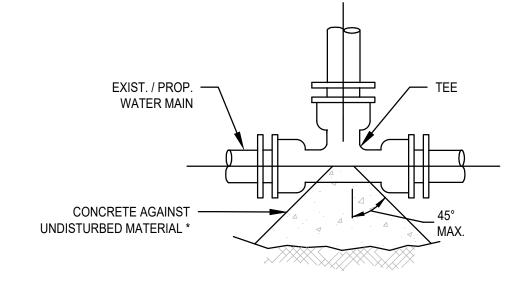
THRUST WATER MAIN PLUG SCALE: N.T.S.



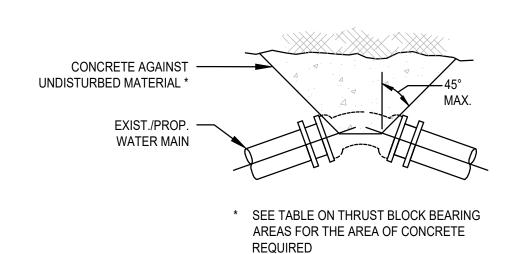
THRUST WATER MAIN THRUST BLOCK SECTION DETAIL SCALE: N.T.S.

THRUST BLOCK BEARING AREAS FOR WATER PIPE

TABLE OF BEARING AREAS IN SQ. FT. AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS*			
SIZE OF MAIN (IN.)	90° BEND	TEES AND PLUGS	45 ° BEND
6	4	2.5	2
8	6	4	3
12	12	9	7
16	21	16	12



SCALE: N.T.S.



THRUST WATER MAIN BEND THRUST BLOCK DETAIL SCALE: N.T.S.

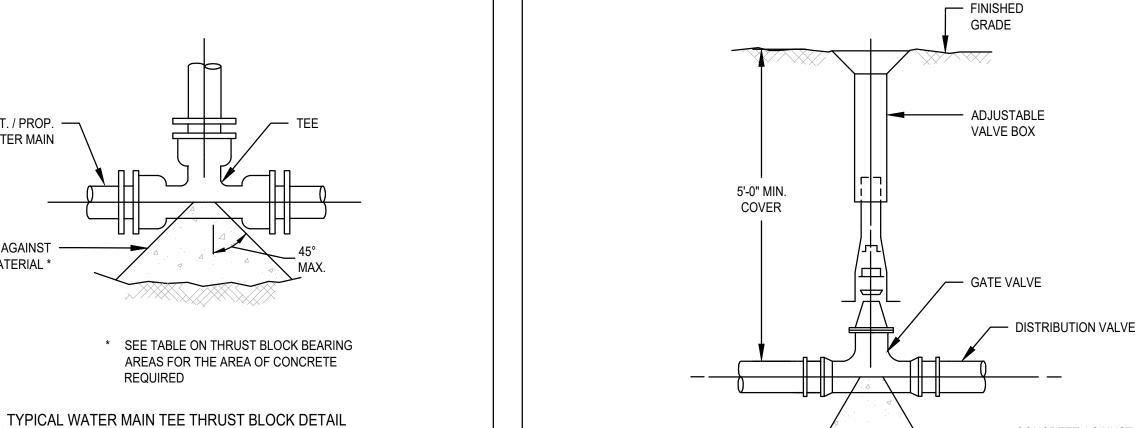
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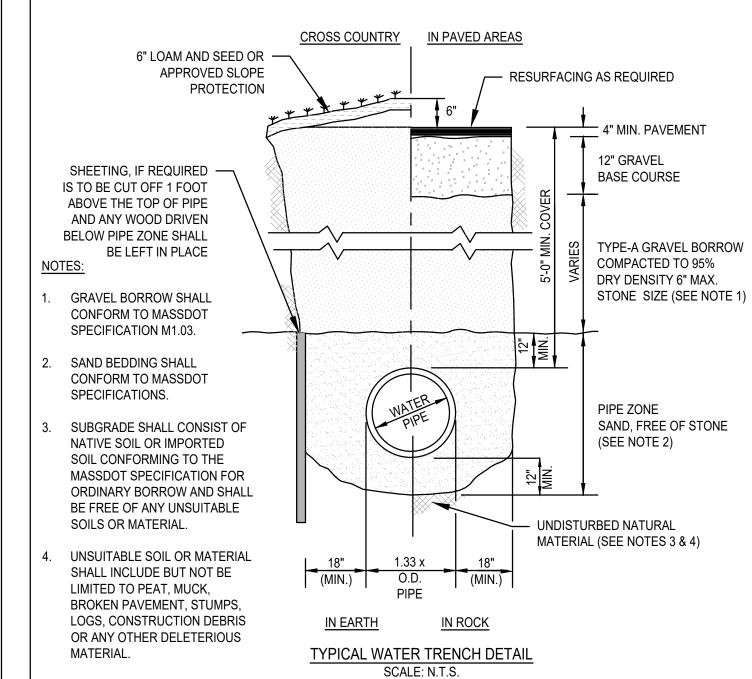
- 1. FOR FITTINGS WITH LESS THAN 45° DEFLECTION, USE BEARING AREAS FOR 45° BEND.
- 2. BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 P.S.F. AND INTERNAL WATER PRESSURE OF 150 P.S.I.G. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DIREGARDED FOR TRENCHES IN ROCK WHERE THE TOP OF THE ROCK FACE IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN THE PIPE AND THE ROCK FACE.
- 3. THE CONTRACTOR SHALL SUBMIT 2 WEEKS IN ADVANCE OF PLACEMENT, WORKING DRAWINGS FOR EACH THRUST BLOCK TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 4. ALL VALVES AND FITTINGS SHALL BE RODDED TOGETHER.

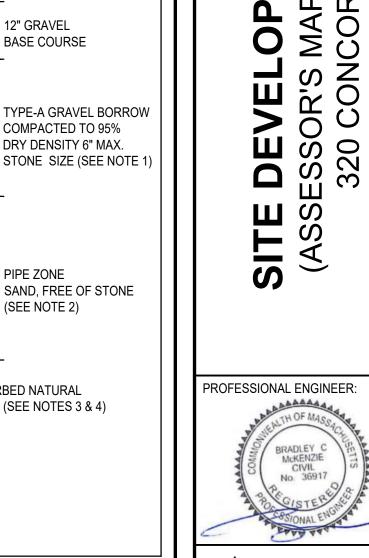
ASSUMPTIONS:

* TYPE OF SOIL IS MEDIUM CLAYEY, 6 OR MORE BLOWS PER FOOT, OR LOOSE GRANULAR, 9 OR MORE BLOWS PER FOOT. SOIL CONDITIONS OTHER THAN THOSE GIVEN WILL REQUIRE LARGER BEARING AREAS.

THRUST BLOCK DETAILS







STREET

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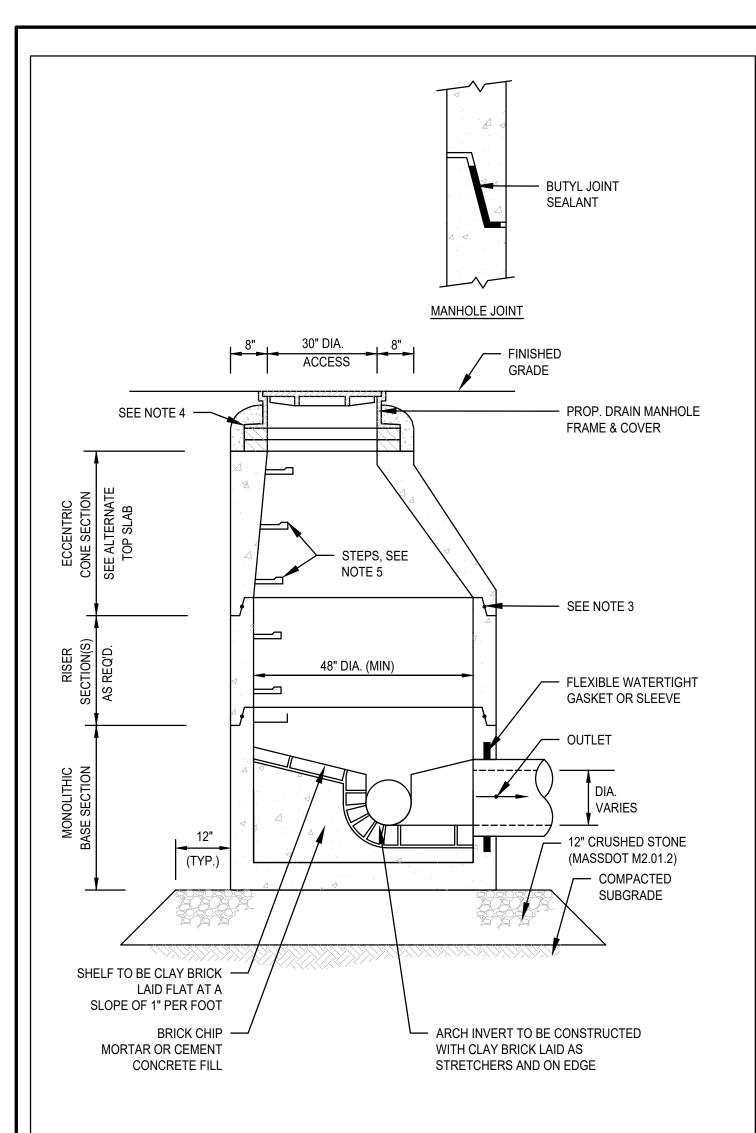
ENGINEERING GROUP

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RAWN BY:	ESS
ESIGNED BY:	ESS
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PPROVED BY:	BCM
ATE:	OCTOBER 7, 2021
CALE:	AS NOTED
ROJECT NO.:	221-187
	221-101
WG. TITLE:	221-101

CONSTRUCTION **DETAILS**

DWG. NO:

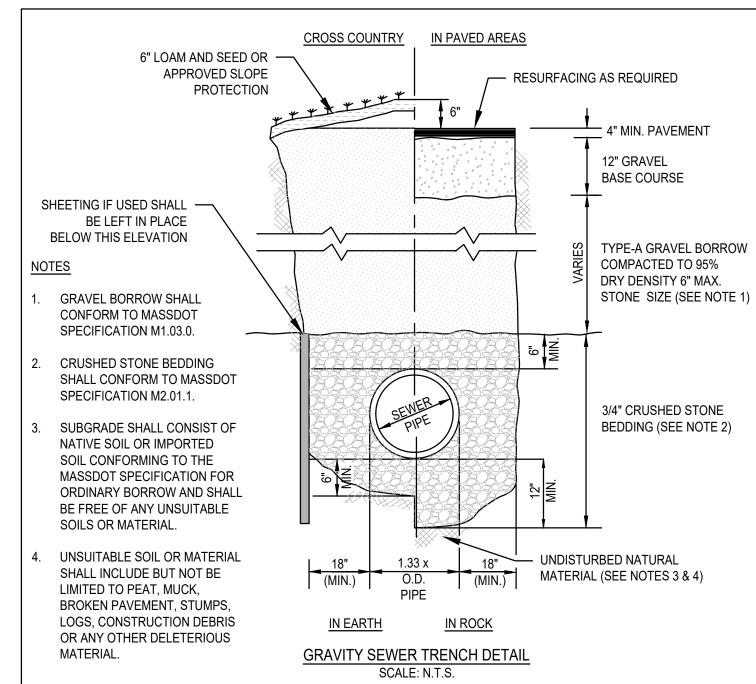
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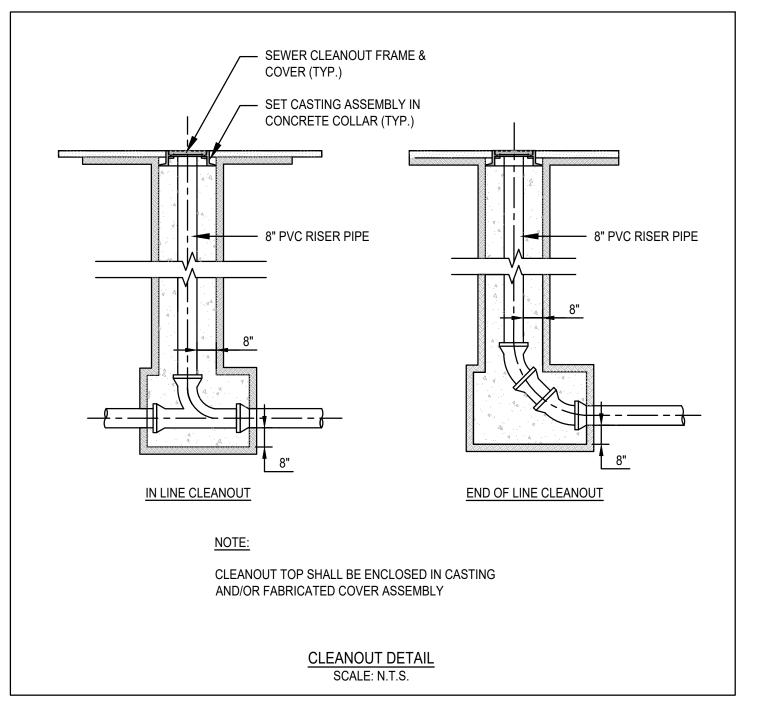


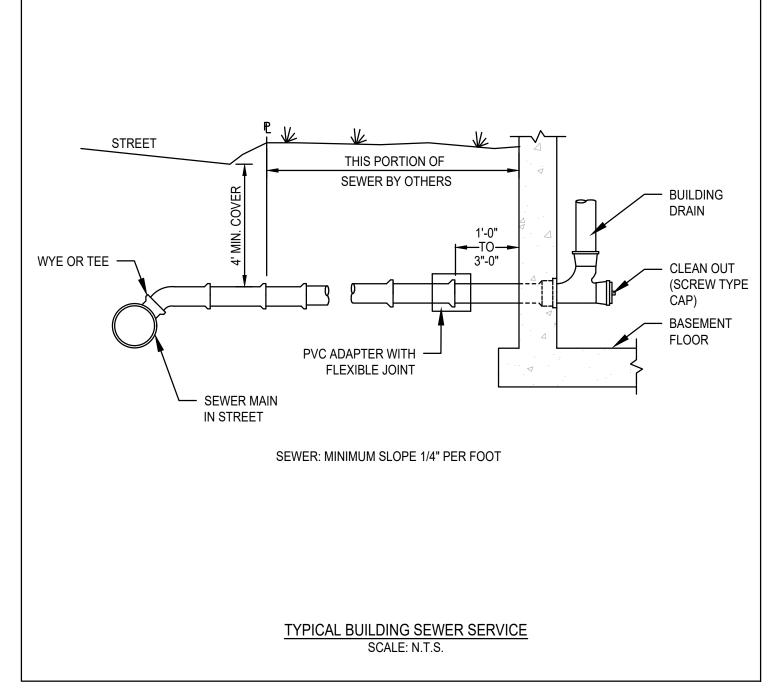
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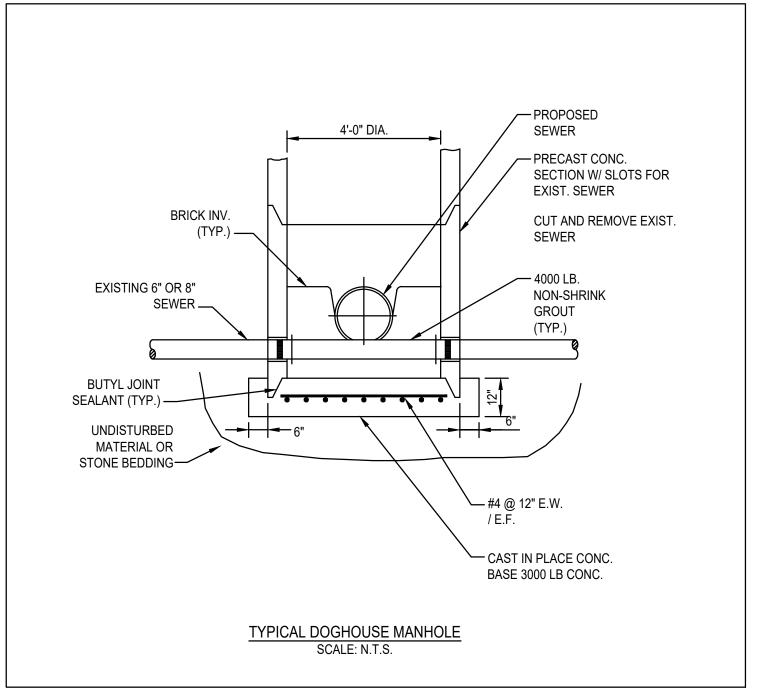
- 1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- 2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
- 3. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
- 4. SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
- 5. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.

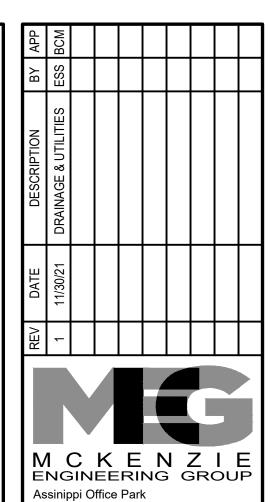
TYPICAL SEWER MANHOLE SCALE: N.T.S.











M C K E N Z I E ENGINEERING GROUF Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

MENT PLANS
57, PARCEL 70)
5ACHLISETTS

SITE DEVELOPMENT P
(ASSESSOR'S MAP 57, PARC
320 CONCORD STREET
ROCKLAND, MASSACHUSE

PROFESSIONAL ENGINEER:

BRADLEY C
MCKENZIE
CIVIL
NO. 36917

CHUSETTS 02062

ALL STREET DEVELOP)RP. ARTHIN CIRCLE ?WOOD, MASSACHUSETTS 02062

DRAWN BY: ESS
DESIGNED BY: ESS
CHECKED BY: BCM
APPROVED BY: BCM
DATE: OCTOBER 7, 2021
SCALE: AS NOTED
PROJECT NO.: 221-187
DWG. TITLE:

CONSTRUCTION DETAILS

DWG. NO:

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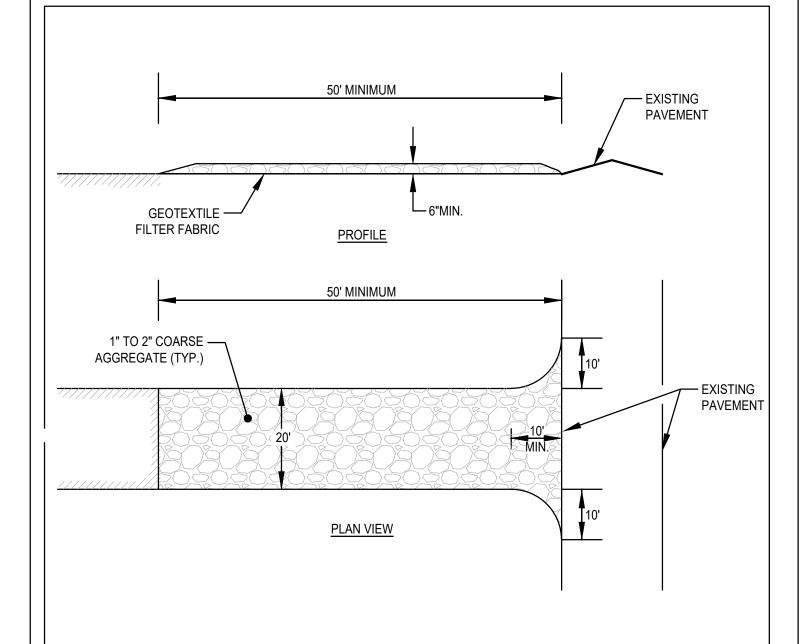
CONSTRUCTION SEQUENCE

TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE.

- THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING PRIOR TO ANY
- CONSTRUCTION ACTIVITY. 2. STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN & PLACE SILTATION FENCE ON THE SITE
- 3. CLEAR AND GRUB UP AS REQUIRED FOR THE CONSTRUCTION OF THE ROADWAY, PARKING AREAS AND RELATED INFRASTRUCTURE. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS TEMPORARY DIVERSIONS
- 6. CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT TOES OF ALL 3:1 OR GREATER SLOPES, AND AT ENDS OF ALL CUT AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE PLAN. THE SUBSURFACE INFILTRATION SYSTEM SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE ROADWAY ROUGH GRADING IS COMPLETED AND THE AREA HAS BEEN CLEARED
- OF VEGETATION. INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE COVERED WITH SILTSACK OR EQUIVALENT INLET PROTECTION.
- GRADE ROADWAY TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED. REFER TO "EROSION AND
- SEDIMENTATION CONTROL" SECTION OF THIS PLAN. 9. PLACE GRAVEL SUBBASE.
- 10. PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON ROADWAY AND PARKING AREAS. GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH.
- 12. PLACE THE FINAL WEARING COURSE OF PAVEMENT.
- COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN MISCELLANEOUS AREAS. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.

EROSION AND SEDIMENTATION CONTROL

- STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK BARRIER CONTROLS, STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY DIVERSION SWALES WITH STONE CHECK DAMS, SEDIMENT BASINS, AND INLET PROTECTION.
- STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING. IN GENERAL, THE SMALLEST POSSIBLE AREA OF LAND SHOULD BE EXPOSED AT ONE TIME. WHEN LAND
- IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE CONFINED TO A MAXIMUM PERIOD OF 3 MONTHS. LAND SHALL NOT BE EXPOSED DURING THE WINTER MONTHS. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND THAT WILL BE REGRADED AT A LATER DATE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH WINTER RYE TO PREVENT EROSION.



(SCE) CONSTRUCTION SPECIFICATIONS:

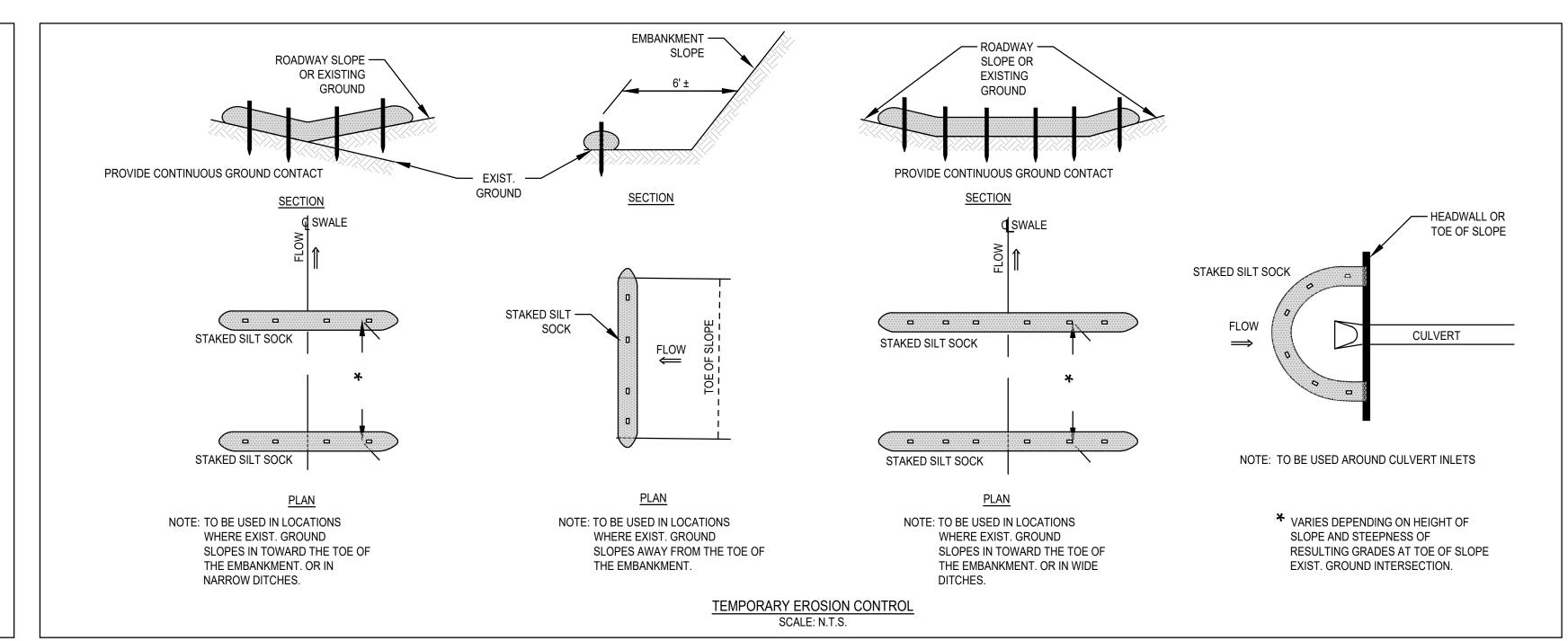
- 1. STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH
- STONE, RECLAIMED STONE. 2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET,
- EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY. 3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- 4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
- 5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- 6. ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED

STABILIZED CONSTRUCTION ENTRANCE (SCE) DETAIL SCALE: N.T.S.

CONSTRUCTION PHASE BMP OPERATION AND MAINTENANCE NOTES:

- 1. STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE EROSION CONTROL BARRIERS, STABILIZED CONSTRUCTION ENTRANCES, TEMPORARY DIVERSION SWALES WITH CHECK DAMS, SEDIMENT BASINS, AND INLET PROTECTION.
- STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING.
- OPERATOR PERSONNEL MUST INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 1/2 INCH OR GREATER. THE INSPECTOR SHOULD REVIEW THE EROSION AND SEDIMENT CONTROLS WITH RESPECT TO THE FOLLOWING:
- A. WHETHER OR NOT THE MEASURE WAS INSTALLED/PERFORMED CORRECTLY. B. WHETHER OR NOT THERE HAS BEEN DAMAGE TO THE MEASURE SINCE IT
- INSTALLED OR PERFORMED C. WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE MEASURE. 4. THE INSPECTOR SHALL COMPLETE THE INSPECTION SCHEDULE AND EVALUATION CHECKLIST FOR FINDINGS AND SHOULD REQUEST THE REQUIRED MAINTENANCE OR
- 5. THE TEMPORARY BASIN SHALL BE INSPECTED AND CLEANED IF REQUIRED PRIOR TO ANY PREDICTED LARGE STORM EVENT.

REPAIR. THE CHECKLIST IS PROVIDED WITHIN THE OPERATION AND MAINTENANCE



1"x1" STAKES —

EVERY 8 LF

PROTECTED RESOURCE AREA

SILTSOCK EROSION CONTROL BARRIER DETAIL SCALE: N.T.S.

— 12" DIAM. BIODEGRADABLE SILT

COMPOST BLEND

CONSISTENT

GROUND CONTACT

DISTURBED AREA

SOCK FILLED WITH WOOD CHIP

TRAPPED SEDIMENT

- 12" DIAM. BIODEGRADABLE SILT SOCK FILLED WITH WOOD CHIP

DISTURBED AREA

1. SILT SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY

2. SILT SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES

3. INSPECTION SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT

4. SILT SOCKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR

ABUTTING OR LAPPING THE ADJACENT SECTIONS.

OR RE-BARS DRIVEN EVERY 8 LF.

DRAINAGE.

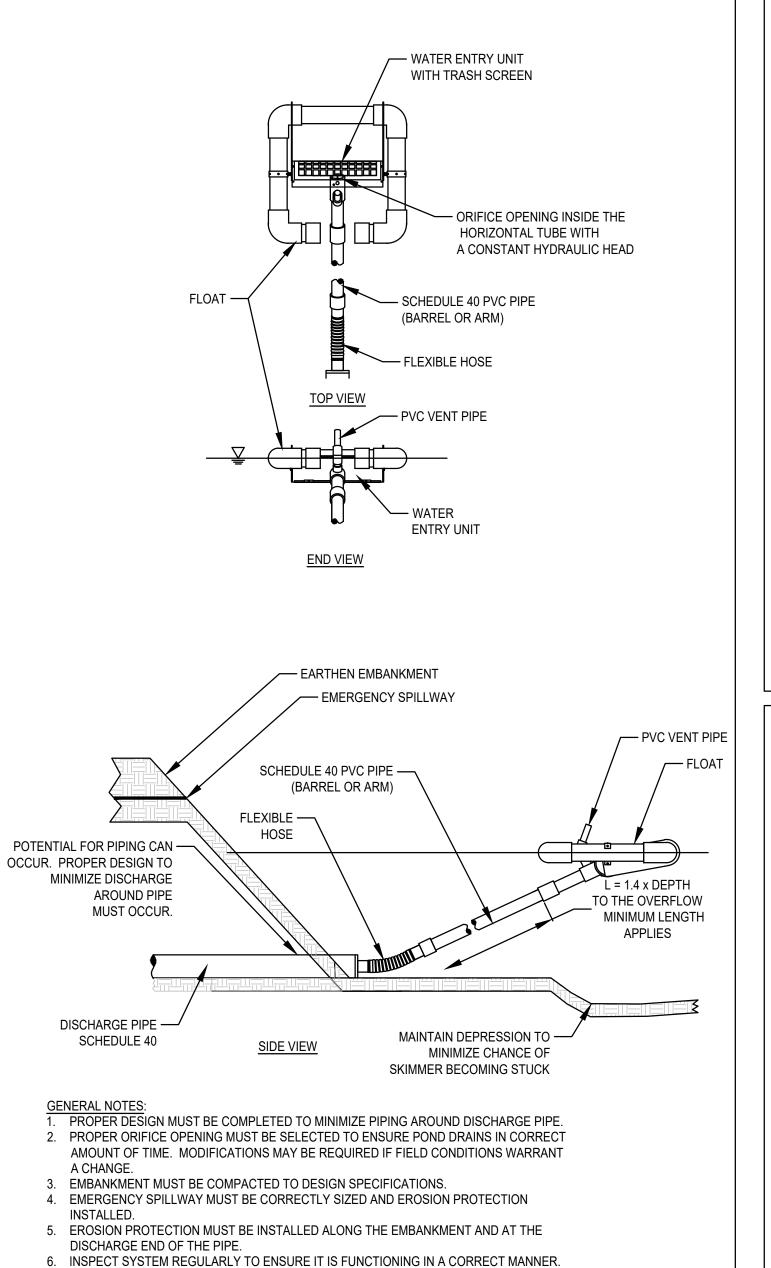
SHALL BE MADE PROMPTLY AS REQUIRED.

COMPOST BLEND

1"x1" STAKES —

PROTECTED RESOURCE AREA

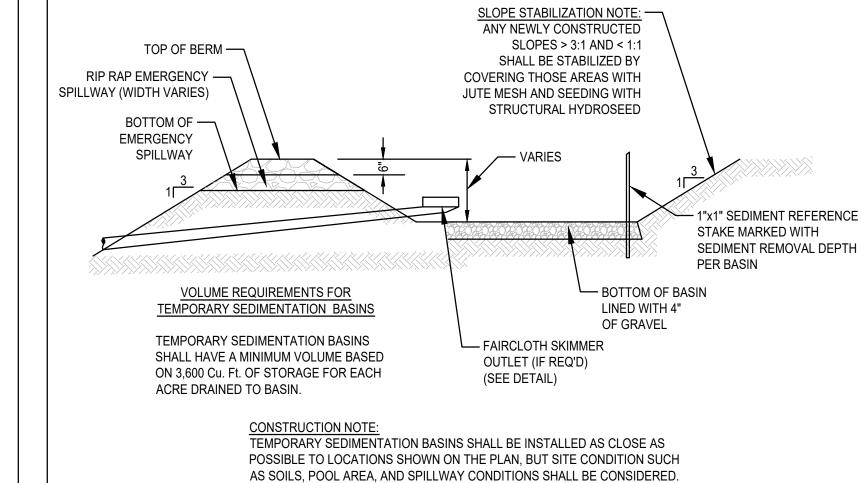
EVERY 8 LF



7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET,

FAIRCLOTH SKIMMER DISCHARGE SYSTEM W/EMBANKMENT

AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

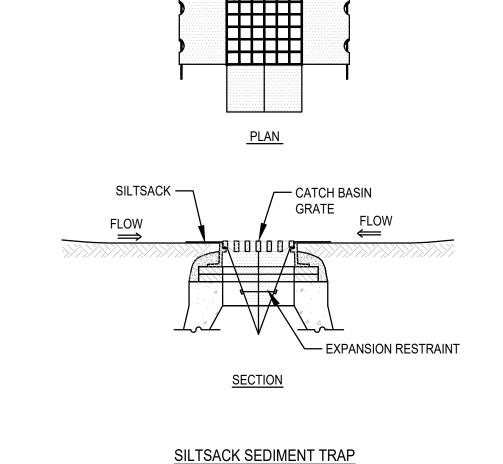


CONTRACTOR SHALL HAVE THE FLEXIBILITY TO ADJUST LOCATIONS AS LONG

TEMPORARY SEDIMENTATION BASIN

SCALE: N.T.S.

AS REQUIRED VOLUME IS PROVIDED.



SCALE: N.T.S.

CATCH BASIN GRATE -SILTSACK -**BAG REMOVAL** Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com 70 **1**

MCKENZIE

ENGINEERING GROUP

150 Longwater Drive, Suite 101

Assinippi Office Park

PROFESSIONAL ENGINEER:

STRE

DRAWN BY: DESIGNED BY: ESS CHECKED BY: BCM APPROVED BY: OCTOBER 7, 2021 SCALE: AS NOTED PROJECT NO.: 221-187 DWG. TITLE:

CONSTRUCTION **DETAILS**

DWG. NO:

C MCKENZIE ENGINEERING GROUP, INC. M:\MEG\2021 PROJECTS\221-187 WALL ST. DEV. CORP. - 320 CONCORD ST., ROCKLAND\DWGS\221-187 EROSION AND SEDIMENTATION CONTROL PLAN.DWG

